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2005 Health Care Survey of DoD Beneficiaries:

Child Technical Manual

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TRICARE Management Activity
5111 Leesburg Pike, Suite 810
Falls Church, VA 22041
(703) 681-4263

Task Order Officer:
Kimberley Marshall, LCDR, Ph. D.

Submitted by:

Mathematica Policy Research, Inc.
600 Maryland Ave., SW, Suite 550
Washington, DC 20024-2512
(202) 484-9220

Project Director:
Eric Schone, Ph.D.

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Chapter

1

Introduction

The 2005 Child Health Care Survey of Department of Defense Beneficiaries (HCSDB) is the primary tool with which the TRICARE Management Activity (TMA) of the Assistant Secretary of Defense (Health Affairs) monitors parents' opinions concerning their child's experience in the military health system (MHS). The Child HCSDB is closely modeled to the Consumer Assessment of Health Plans Survey (CAHPS) 3.0 survey instrument so that findings for children in the MHS can be compared to the results of CAHPS surveys of privately insured children in the private sector. The Child HCSDB is intended to answer the following questions:

- How *satisfied* are sponsors of children in the MHS with their child's health care and their health plan?
- Does *access* for children at military and civilian facilities meet TRICARE standards?
- What aspects of MHS care contribute most to beneficiary satisfaction with their child's health care experiences? With which aspects are beneficiaries least satisfied?
- What are the demographic characteristics of children in the MHS and their sponsors?
- How do children in the MHS compare with children in the private sector on issues related to satisfaction and access to care?
- What are special health care needs of MHS children?

The HCSDB is a mail survey of a representative sample of MHS beneficiaries. It is sponsored by the TRICARE Management Activity in the Office of the Assistant Secretary of Defense (Health Affairs) [OASD(HA)] under authority of the National Defense Authorization Act for Fiscal Year 1993 (P.L. 102-484). Standard Technology Inc (STI) prepared the sampling frame, which consists of selected variables for each MHS beneficiary in the Defense Enrollment Eligibility Reporting System (DEERS) database in June 2005. DEERS includes everyone who is eligible for a MHS benefit (i.e., everyone in the Uniformed Services—Army, Air Force, Navy, Marine Corps, Coast Guard, the Commissioned Corps of the Public Health Service, National Oceanic and Atmospheric Administration, Guard/Reserve personnel who are activated for more than 30 days—and other special categories of people who qualify for benefits). The frame includes those on active duty, those retired from military careers, immediate family members of people in the previous two categories, and surviving family members of people in these categories.

Mathematica Policy Research, Inc. (MPR, Washington, D.C.) prepared the sample of 35,000 child beneficiaries (Clusen et al, 2005). Synovate fielded the survey from August to October 2005. MPR analyzed the survey data, reported on the results, and prepared this document, the "2005 Health Care Survey of DoD Beneficiaries: Child Technical Manual" under task order 14, under Contract Number 233-02-0086.

This manual is designed as a reference tool to be used by analysts as they interpret the survey findings and prepare briefings. The manual provides detailed documentation on the following: naming conventions for variables, editing procedures, selection of records, computation of response rates, recoding of variables, computation of weights, variance estimation, and construction of tables and charts for the report. The manual enables an analyst to follow, and replicate if desired, the processing of the raw survey data through each step in the production of the final database.

A. OVERVIEW OF THE HCSDB

This section represents an overview of the methodology used in the survey. A sample of 35,000 parents or sponsors of MHS beneficiaries younger than 18 years of age received a 2005 Child HCSDB questionnaire between August 23, 2005 and October 7, 2005.

1. Sample Design

The 2005 child sample design is based on three sample stratifications—enrollment status, geographic area, and age group. Enrollment type is defined by enrollment in TRICARE Prime with a military primary care manager (PCM), enrollment in TRICARE Prime with a civilian PCM, and not enrolled in TRICARE Prime. The effect of this stratification is to allocate a greater proportion of the sample to those enrolled in Prime and a smaller proportion to those not enrolled in Prime.

Geographic area refers to the beneficiary's TNEC regional assignment. The beneficiary's regional assignment is determined by the MTF that bears the financial responsibility for the beneficiary's health care. Beneficiaries were assigned to one of four regions: (1) North, (2) South, (3) West, and (4) Other.

Beneficiaries were assigned to one of three age groups: younger than 6 years old, between 6 and 12, and between 13 and 17 years old. Sampling procedures ensured that only one child per household was surveyed.

2. 2005 Child HCSDB

The HCSDB is an annual health care survey that was first fielded in 1995 for active duty military personnel, retirees, and their adult family members. In 1996 and 1997, the survey was expanded to include topics related to health care of children. In those years, the survey consisted of two separate questionnaires: Form A for adults and Form C for children's topics. The 1998 HCSDB did not include a child survey. In 2000, fielding of the child survey was resumed. The child survey assesses parents' satisfaction with their child's access to health care, TRICARE Prime, communication and customer service related to pediatric care. Note that prior to 2002, the title of the survey referred to the survey reference period. For example, the survey fielded in 2000 described children's experiences beginning in 1999 and was known as the 1999 Child HCSDB. Beginning in 2002, the survey title refers to the year the survey was fielded.

The 1999, 2000, 2002, and 2003 Child HCSDB were closely modeled on CAHPS 2.0H survey instruments. In 2004 and 2005, questions in the Child HCSDB were modified to conform to CAHPS 3.0H so that findings for children in the MHS could be compared with the results of recent CAHPS surveys of privately insured children. Most of the survey questions are identical to the CAHPS questions. CAHPS is a survey program sponsored by the Agency for Health Care Research and Quality (AHRQ), U.S. Department of Health and Human Services, and the Picker Institute. The program is designed to monitor the satisfaction and access of civilian health care plan beneficiaries. A few of the questions are "CAHPS-like" but are modified slightly to better fit the MHS context; some questions are unique to issues related to TRICARE.

The Child HCSDB covers the following topics:

- **Health Plan.** This section collects data on TRICARE Prime enrollment and the use of supplemental insurance and/or other private insurance by the child in the past 12 months.
- **Your Child's Personal Doctor or Nurse.** In this section, respondents are asked about their relationship with their child's personal doctor or nurse. They are asked to rate their child's personal doctor or nurse on a scale of 0 to 10 where 0 is the worst and 10 is the best. There are additional questions on problems receiving care from a TRICARE primary care manager.

- **Getting Health Care from a Specialist.** This section collects information about the child's need for and access to care from specialists. Respondents rate the specialist that their child sees most frequently on a scale from 0 to 10 where 0 is the worst and 10 is the best.
- **Your Child's Health Care in the Last 12 Months.** This section collects information on the care children of DoD beneficiaries received in the past 12 months. These questions cover topics such as availability of providers and their staff, convenience, and courtesy and respect shown by providers and their staff. These questions are similar in content and format to questions in CAHPS.
- **Specialized Services.** In this section, parents are asked about requests for special medical equipment and therapy for their children. There are additional questions on how much of a problem it was to obtain these services.
- **Your Child's Health Plan.** This section is designed to measure beneficiaries' satisfaction with their child's primary health plan. Respondents are asked to rate their child's health plan on a scale of 0 to 10, where 0 is the worst and 10 is the best. Additionally, respondents are asked questions on problems with claims processing for their child, finding and understanding written materials from their child's health plan, customer service, and processing paperwork.
- **Prescription Medications.** This section collects information on obtaining prescription medication for beneficiaries' children.
- **About Your Child and You.** This section collects demographic information about the child, including general and special health conditions, physical activities, age, gender, and race. Respondents also report their age, gender, education level, and relationship to the child. This section includes a battery of questions designed to identify children with special health care needs.

3. Survey Response

The survey was fielded by mail. Out of the initial sample of 35,000, Synovate sent out questionnaires starting on August 23, 2005. The final mailing took place on October 7, 2005. Of these questionnaires, a total of 9,624 complete and unduplicated questionnaires were returned either by mail or internet, for a response rate of 29.3.

4. Database Development

MPR edited the data, selected the records for inclusion in the final database, and constructed variables to be used in the reports. To ensure that the survey data was representative of the DEERS population, MPR developed weights to take account of the initial sampling and the sampled individuals who chose not to respond to the survey.

5. Report

This year's results are presented in the form of issue briefs:

- Experiences of Children with Special Health Care Needs in TRICARE
- Overweight Children in the Military Health System

Results are also presented in the *2005 HCSDb Annual Report*.

B. ORGANIZATION OF THIS MANUAL

Chapter 2 presents the procedures used in fielding the survey. Chapter 3 explains how the database was developed. It covers naming conventions, editing procedures, record selection criteria, descriptions of all variable types, definitions of each constructed variable, and weighting

procedures. Chapter 4 describes how the database was analyzed. The description includes rules for developing response rates, an explanation of the dependent variables and independent variables, and the methodology for estimating the variance of estimates. The manual concludes with a series of technical appendices:

- Appendix A: Annotated questionnaire
- Appendix B: Materials sent to the respondents during the fielding of the survey
- Appendix C: Data Processing Architecture
- Appendix D: Coding Scheme
- Appendix E: Technical Description of the 2005 TRICARE Child Beneficiary Reports
- Appendix F: SAS Code for File Development
- Appendix G: SAS Code for Statistical and Web Specifications for 2005 TRICARE Beneficiary Reports

Chapter

2

Survey of Children

This chapter presents information on the survey administration cycle for the 2005 Child Health Care Survey of DoD Beneficiaries (HCSDB), with specific details on the survey mailing cycle and the number of surveys received.. Those who received the mailing were given the option of responding on the internet instead of by mail. This chapter describes the mailings and the surveys received by mail. Both mail and internet responses are included in the dataset, frequency tables and response rate calculations.

A. SURVEY OPERATIONS ACTIVITIES

Operational support for the Health Care Survey of DoD Beneficiaries (HCSDB) involved four mailings to beneficiaries between July 28, 2005 to October 7, 2005.

The mailings include:

1. Pre-Notification Letter – Letter of explanation encouraging participation
2. Questionnaire 1 – The survey, including a brief letter of explanation
3. Postcard – A reminder to complete the survey and a thank you for completion
4. Questionnaire 2 – The survey, including a brief letter of explanation.

B. SAMPLE

The Child HCSDB was conducted during the 3rd quarter of the calendar year and surveyed 35,000 child beneficiaries.

C. SURVEY PROCESSING

Synovate applies a Bar Code, Control Number (MIQ) & Password to each beneficiary upon receipt of the sample. This system ensures that all data collected is aggregated and available throughout the survey lifecycle. Each of the identifying labels is detailed below:

Barcode

Digit 1 - Quarter Marker (1-4)

Digit 2 - Wave Marker (1-4)

Digit 3 - Study Marker (1=sample, 2=supplemental, 3=child)

Digits 4-8 - Sequential ID#

Control Number (MIQ) - 8-digit unique identifier

Digits 1-7 – Sequential ID #

Digit 8 – Check Digit

Password

Non-sequential 6-digit password (for online response access) – Password is unique across all samples

D. ADDRESSES

The HCSDB is designed so that beneficiaries may receive up to four mailings. Synovate may collect up to eight addresses for each beneficiary in order to maximize the receipt rate for mailing.

The first available address in the following order was used for each mailing.

1. Respondent Updated
2. Updated Residential
3. NCOA
4. Original Residential
5. Updated Sponsor
6. Original Sponsor
7. Updated Unit
8. Original Unit

The sources for these addresses are as follows:

- DoD Scientific and Technical Information (STI)-DEERS Addresses

In the initial sample file, STI provides up to three addresses for each beneficiary. Synovate considers these addresses to be Original Residential, Original Sponsor and Original Unit.

STI also provides updates on each of the three addresses prior to the Questionnaire, Postcard and 2nd Questionnaire mailings. Synovate records these addresses as Residential Updated, Sponsor Updated, Unit Updated.

- NCOA Address

Upon receipt of the initial sample and prior to the Pre-Notification mailing, Synovate sends each address to a National Change of Address (NCOA) vendor for updating and hygiene services. The updated address returned by the vendor is marked as the NCOA address.

- Respondent Updates

Respondents were able to report address and status changes via telephone, voicemail, fax, and email. Address changes submitted by respondent were considered priority over any other address type.

- Address correction via USPS

The United States Postal Service provided address corrections on returned mail if available.

Table 2.1 gives the address breakdown for each mailing by Beneficiary Category.

TABLE 2.1

FREQUENCY OF ADDRESS BY BENEFICIARY CATEGORY – SAMPLE

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Unknown (Z)	Total
PRENOTIFICATION LETTER												33043
NCOA Updated Residential	0 0.00%	1637 4.95%	1 0.00%	338 1.02%	0 0.00%	0 0.00%	0 0.00%	687 2.08%	32 0.10%	44 0.13%	2 0.01%	2741 8.30%
Original Residence	11 0.03%	16773 50.76%	3 0.01%	4378 13.25%	0 0.00%	13 0.04%	0 0.00%	8171 24.73%	357 1.08%	436 1.32%	14 0.04%	30156 91.26%
NCOA Updated Sponsor	0 0.00%	3 0.01%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	0 0.00%	7 0.02%
Original Sponsor	0 0.00%	39 0.12%	0 0.00%	22 0.07%	0 0.00%	0 0.00%	0 0.00%	67 0.20%	0 0.00%	4 0.01%	0 0.00%	132 0.40%
Original Unit	7 0.02%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	7 0.02%
QUESTIONNAIRE 1												32719
Respondent /USPS Updated	0 0.00%	109 0.33%	0 0.00%	19 0.06%	0 0.00%	0 0.00%	0 0.00%	23 0.07%	1 0.00%	4 0.01%	0 0.00%	156 0.48%
NCOA Updated Residential	0 0.00%	1626 4.97%	0 0.00%	335 1.02%	0 0.00%	0 0.00%	0 0.00%	683 2.09%	32 0.10%	42 0.13%	2 0.01%	2720 8.31%
STI Updated Residential	0 0.00%	36 0.11%	0 0.00%	4 0.01%	0 0.00%	0 0.00%	0 0.00%	77 0.24%	10 0.03%	0 0.00%	0 0.00%	127 0.39%
Original Residence	0 0.00%	16461 50.31%	0 0.00%	4330 13.23%	0 0.00%	13 0.04%	0 0.00%	8022 24.52%	321 0.98%	427 1.31%	12 0.04%	29586 90.42%
NCOA Updated Sponsor	0 0.00%	3 0.01%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	0 0.00%	7 0.02%
STI Updated Sponsor	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	2 0.01%
Original Sponsor	0 0.00%	36 0.11%	0 0.00%	19 0.06%	0 0.00%	0 0.00%	0 0.00%	62 0.19%	0 0.00%	4 0.01%	0 0.00%	121 0.37%

Table 2.1 continued

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Unknown (Z)	Total
POSTCARD												32631
Respondent /USPS Updated	0 0.00%	109 0.33%	0 0.00%	19 0.06%	0 0.00%	0 0.00%	0 0.00%	23 0.07%	1 0.00%	4 0.01%	0 0.00%	156 0.48%
NCOA Updated Residential	0 0.00%	1623 4.97%	0 0.00%	334 1.02%	0 0.00%	0 0.00%	0 0.00%	682 2.09%	32 0.10%	42 0.13%	2 0.01%	2715 8.32%
STI Updated Residential	0 0.00%	36 0.11%	0 0.00%	4 0.01%	0 0.00%	0 0.00%	0 0.00%	77 0.24%	10 0.03%	0 0.00%	0 0.00%	127 0.39%
Original Residence	0 0.00%	16424 50.33%	0 0.00%	4319 13.24%	0 0.00%	13 0.04%	0 0.00%	7990 24.49%	321 0.98%	425 1.30%	12 0.04%	29504 90.42%
NCOA Updated Sponsor	0 0.00%	3 0.01%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	0 0.00%	7 0.02%
STI Updated Sponsor	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	2 0.01%
Original Sponsor	0 0.00%	36 0.11%	0 0.00%	19 0.06%	0 0.00%	0 0.00%	0 0.00%	61 0.19%	0 0.00%	4 0.01%	0 0.00%	120 0.37%
QUESTIONNAIRE 2												26285
Respondent /USPS Updated	0 0.00%	972 3.70%	0 0.00%	159 0.60%	0 0.00%	1 0.00%	0 0.00%	184 0.70%	5 0.02%	23 0.09%	2 0.01%	1346 5.12%
NCOA Updated Residential	0 0.00%	289 1.10%	0 0.00%	40 0.15%	0 0.00%	0 0.00%	0 0.00%	57 0.22%	1 0.00%	2 0.01%	1 0.00%	390 1.48%
STI Updated Residential	0 0.00%	4185 15.92%	0 0.00%	689 2.62%	0 0.00%	1 0.00%	0 0.00%	1483 5.64%	69 0.26%	69 0.26%	2 0.01%	6498 24.72%
Original Residence	0 0.00%	9045 34.41%	0 0.00%	2926 11.13%	0 0.00%	7 0.03%	0 0.00%	4527 17.22%	174 0.66%	306 1.16%	6 0.02%	16991 64.64%
NCOA Updated Sponsor	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%
STI Updated Sponsor	0 0.00%	517 1.97%	0 0.00%	82 0.31%	0 0.00%	2 0.01%	0 0.00%	374 1.42%	0 0.00%	14 0.05%	1 0.00%	990 3.77%
Original Sponsor	0 0.00%	16 0.06%	0 0.00%	12 0.05%	0 0.00%	0 0.00%	0 0.00%	39 0.15%	0 0.00%	2 0.01%	0 0.00%	69 0.26%

E. SURVEY ADMINISTRATION TIMELINE

File Receipt	7/15/05
NCOA Update	7/19/05
Pre-Notification	7/28/05
Questionnaire 1	8/23/05
STI-DEERS Update	8/25/05
Postcard	9/06/05
Questionnaire 2	10/7/05
Close of Field	11/10/05
File to MPR	11/28/05
Final Report to DoD	12/13/05

F. DISPOSITION CODES

Synovate assigned disposition codes to each sample member as the information is received and questionnaire is returned. These codes are outlined below.

- FLAG_FIN=1

Returned survey – survey was completed and returned.

- FLAG_FIN=2

Returned ineligible – survey was returned with at least one question marked and information that the beneficiary was ineligible. The information indicating ineligibility may have come by phone, fax, or the survey itself.

- FLAG_FIN=3

Returned blank – temporarily ill or incapacitated. Survey was returned blank along with information that the beneficiary was temporarily ill or incapacitated. These sample members were eligible.

- FLAG_FIN=4

Returned blank – deceased. Survey was returned blank along with information that the beneficiary was deceased. These sample members were ineligible.

- FLAG_FIN=5

Returned blank – incarcerated or permanently incapacitated. Survey was returned blank along with information that the beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.

- FLAG_FIN=6

Returned blank – left military or divorced after 6/16/05, retired. Survey was returned blank along with information that the beneficiary left the military after 6/16/05, divorced after 6/16/05, or retired. These sample members were eligible.

- FLAG_FIN=7

Returned blank – not eligible on 6/16/05. Survey was returned blank along with information that the beneficiary was not eligible for Military Health System Plan on 6/16/05. These sample members were ineligible.

- FLAG_FIN=8

Returned blank – other eligible. Survey was returned blank along with a reason given by the sample member. These sample members were eligible.

- FLAG_FIN=9

Returned blank – no reason. Survey was returned blank without an explanation. These sample members were eligible.

- FLAG_FIN=10

No return – temporarily ill or incapacitated. Survey was not returned and beneficiary was temporarily ill or incapacitated. These sample members were eligible.

- FLAG_FIN=11

No return – active refuser. Survey was not returned and beneficiary's parent or guardian refused to take part in the survey. These sample members were eligible.

- FLAG_FIN=12

No return – deceased. Survey was not returned and beneficiary deceased. These sample members were ineligible.

- FLAG_FIN=13

No return – incarcerated or permanently incapacitated. Survey was not returned, beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.

- FLAG_FIN=14

No return – left military or divorced after 6/16/05, retired. Survey was not returned, beneficiary left service after 6/16/05, divorced after 6/16/05, or retired. These sample members were eligible.

- FLAG_FIN=15

No return – not eligible on 6/16/05. Survey was not returned, beneficiary was not eligible for Military Health System Plan on 6/16/05. These sample members were ineligible.

Example: Beneficiary turned 21 and is no longer covered under parents' plan.

- FLAG_FIN=16

No return – other eligible. Survey was not returned, beneficiary gave other reason for not completing the survey. These sample members were eligible.

Examples: Beneficiary claims they have not used benefits in past 12 months.

Beneficiary is away at college, on a religious mission, lives overseas.

Received information that Beneficiary's parent or guardian chosen for survey does not speak English well enough to participate.

- FLAG_FIN=17

No return – no reason. Survey was not returned, beneficiary gave no reason.

- FLAG_FIN=18

Postal non Deliverable (PND) – no address remaining. All addresses were attempted, mailing was returned PND. NOTE: For the child sample, if someone in the household indicated that the child did not live in the household, and did not volunteer another address for the child, the sample record was dispositioned FLAG_FIN=18 and no further addresses were used.

- FLAG_FIN=19

PND – address remaining at the close of field. At the close of field, the last address used was found invalid, next available was not attempted.

- FLAG_FIN=20

Original Non-Locatable – no address at start of mailing. Substantially incomplete or blank address field before the survey was administered, no mailings attempted.

- FLAG_FIN=21

Beneficiary's parent or guardian provides written documentation declining to participate but doesn't specify a reason.

- FLAG_FIN=22

Beneficiary indicates they are hospitalized but without providing any way to determine whether incapacity is temporary or permanent. Therefore, eligibility determination can not be made.

- FLAG_FIN=23

Returned blank – deployed. Survey was returned blank along with information that the beneficiary was deployed.

- FLAG_FIN=24

No return – deployed. Survey was not returned, beneficiary was deployed.

- FLAG_FIN=25

Deceased. Beneficiary coded as deceased due to refresh.

- FLAG_FIN=26

No match. Missing address after refresh, otherwise ineligible

Table 2.2 documents the final disposition of the survey sample by each beneficiary group.

TABLE 2.2

FREQUENCY OF DISPOSITION BY BENEFICIARY CATEGORY – SAMPLE

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Unknown (Z)	Total
RETURNED												9857
Completed (1)	0 0.00%	4776 14.34%	0 0.00%	1300 3.90%	0 0.00%	2 0.01%	0 0.00%	3499 10.50%	123 0.37%	88 0.26%	3 0.01%	9791 29.39%
Ineligible (2)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%
Temporarily Ill or Incapacitated (3)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Deceased (4)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Incarcerated or Permanently Incapacitated (5)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Left Military or divorced after 6/16/05, retired (6)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Not Eligible on 6/16/05 (7)	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	3 0.01%
Other Eligible (8)	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%
No Reason (9)	0 0.00%	24 0.07%	0 0.00%	11 0.03%	0 0.00%	0 0.00%	0 0.00%	23 0.07%	0 0.00%	2 0.01%	0 0.00%	60 0.18%
NO RETURN												20980
Temporarily Ill or Incapacitated (10)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Active Refusal (11)	0 0.00%	6 0.02%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	10 0.03%
Deceased (12)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%

Table 2.2 (continued)

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Unknown (Z)	Total
Incarcerated or Permanently Incapacitated (13))	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Left Military or divorced after 6/16/05, retired (14)	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	0 0.00%	5 0.02%
Not Eligible on 6/16/05 (15)	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	4 0.01%	0 0.00%	0 0.00%	0 0.00%	5 0.02%
Other Eligible (16)	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	1 0.00%	0 0.00%	6 0.02%
No Reason (17)	18 0.05%	12264 36.82%	4 0.01%	3209 9.63%	0 0.00%	10 0.03%	0 0.00%	4924 14.78%	181 0.54%	332 1.00%	11 0.03%	20953 62.90%
PND												2238
No Address Remaining (18)	0 0.00%	865 2.60%	0 0.00%	162 0.49%	0 0.00%	1 0.00%	0 0.00%	299 0.90%	84 0.25%	16 0.05%	1 0.00%	1428 4.29%
Address Remains at Close of Field (19)	0 0.00%	505 1.52%	0 0.00%	57 0.17%	0 0.00%	0 0.00%	0 0.00%	222 0.67%	2 0.01%	10 0.03%	1 0.00%	797 2.39%
No Address at Start of Mailing (20)	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	10 0.03%	0 0.00%	0 0.00%	13 0.04%
MISCELLANEOUS												1
Written Refusal without Reason (21)	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%
Ill or Incapacitated – Unsure whether Temporary or Permanent (22)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%

Table 2.2 (continued)

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Unknown (Z)	Total
DEPLOYED												0
Returned Blank (23)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No Return (24)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
UPDATES												236
Deceased Indicated by STI-DEERS Update(25)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	0 0.00%	2 0.01%
Not Eligible Indicated by STI-DEERS Update (26)	1 0.00%	140 0.42%	0 0.00%	21 0.06%	0 0.00%	0 0.00%	0 0.00%	6 0.02%	0 0.00%	66 0.20%	0 0.00%	234 0.70%
TOTALS	19	18585	4	4767	0	13	0	8992	400	516	16	33312

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Chapter

3

Database

This chapter explains the process of developing the raw survey data into a final database free of inconsistencies and ready for analysis. We discuss the design of the database; cleaning, editing, and implementing the Coding Scheme; record selection; constructing variables; and weighting.

A. DATABASE DESIGN

The 2005 Child HCSDb consists of variables from various sources. When Synovate delivered the file to MPR after fielding the sample, the following types of variables were present:

- DEERS information on beneficiary group, social security number, sex, age, etc.
- Sampling variables used to place beneficiaries in appropriate strata
- Questionnaire responses
- Synovate information from fielding the sample, such as scan date and flags developed during the fielding to assist us in determining eligibility

MPR added the following types of variables to the database:

- Updated DEERS variables from the time of data collection to be used for post-stratification
- Coding Scheme flags
- Constructed variables for analysis
- Weights

In addition, MPR updated and cleaned the questionnaire responses using the Coding Scheme tables found in Appendix D. This year the final file does not include both the original and recoded responses, but only the cleaned responses; this will help users to avoid using an uncleaned response for analysis. We structured the final database so that all variables from a particular source are grouped by position. Table 3.1 lists all variables in the database by source and briefly describes each variable. For specific information on variable location within the database, refer to the “2005 Health Care Survey of DoD Beneficiaries: Child Codebook and User’s Guide.”

1. Data Sources

a. DEERS

STI provided the sampling frame to MPR prior to the selection of the sample. DEERS information such as sex, date of birth, and service are retained in the database; this data is current as of the time of sample selection.

b. Sampling Variables

MPR developed variables during the sample selection procedure that were instrumental in placing beneficiaries in appropriate strata. Many of the variables are retained on the database.

c. Questionnaire Responses

These variables represent the cleaned values for all responses to the questionnaire. The original values scanned in by Synovate are cleaned and recoded as necessary to ensure that responses are consistent throughout the questionnaire. The Coding Scheme tables found in Appendix D are the basis for insuring data quality.

d. Survey Fielding Variables

In the process of fielding the survey, Synovate created a number of variables that we retain in the database. Certain of these variables, information that came in by phone, for example, assist us in determining eligibility.

e. Coding Scheme Flags

Each table of the Coding Scheme (see Appendix D) has a flag associated with it that indicates the pattern of original responses and any recodes that were done. For example, the table for Note 5 has a flag N5.

f. Constructed Variables

MPR constructed additional variables that were used in the child report cards. Often these variables were regroupings of questionnaire responses or the creation of a binary variable to indicate whether or not a TRICARE standard was met. Complete information on each constructed variable is found in section 3.D.

g. Weights

MPR developed weights for each record in the final database. Weights are required for the following reasons:

- To compensate for variable probabilities of selection
- To adjust for differential response rates
- To improve the precision of survey-based estimates through poststratification

Weighting procedures are discussed in section 3.E.

TABLE 3.1

VARIABLES IN THE 2005 CHILD HCSDB DATA FILE

SAMPLING VARIABLES	
MPRID	- Unique MPR Identifier
MPCSMPL	- MPCSMPL - Military Personnel Category
SVCSMPL	- SVCSMPL - Branch of Service
SEXSMPL	- SEXSMPL - Sex
AGESMPL	- AGESMPL - Age
BGCSMPL	- BGCSMPL - Beneficiary Group
ENBGSMPL	- Enrollment by beneficiary category
STRATUM	- Sampling STRATUM
TNEXREG	- Beneficiary's TNEX Region
TNEXSMPL	- TNEXSMPL - Beneficiary TNEX region
E1	- Eligibility indicator for period = 1
E2	- Eligibility indicator for period = 2
E3	- Eligibility indicator for period = 3
E4	- Eligibility indicator for period = 4
E5	- Eligibility indicator for period = 5
DEERS VARIABLES	
MRTLSTAT	- Marital Status
RACEETHN	- Race/Ethnic Code
DAGEQY	- Age (As of 10 June 2005)
FIELDAGE	- Age (As of 23 August 2005)
PCM	- Primary Manager Code (CIV or MIL)
LEGDDSCD	- DDS Code
PNLCATCD	- Personnel Category Code (Duty Status)
MBRRELCD	- Member Relationship Code
DBENCAT	- Beneficiary Category
DMEDELG	- Medical Privilege Code
DSPONSVC	- Derived Sponsor Branch of Service
MEDTYPE	- Medicare Type
PATCAT	- Aggregated Beneficiary Category
ENRID	- Enrollment DMISID
DCATCH	- Catchment Area
ACV	- ACV - Alternate Care Value
POST STRATIFICATION	
ENLSMPL	- ENLSMPL - Enrollment Sampling Group
FNSTATUS	- Final Status
KEYCOUNT	- # of Key Questions Answered
POSTSTR	- Post Stratification Cell
QUESTIONNAIRE RESPONSES	
C05001	- Are you adult responsible for child
C05002A	- Child covered by TRICARE Prime
C05002B	- Child covered by TRICARE Extra/Standard
C05002C	- Child covered by civilian HMO
C05002D	- Child covered by other civilian insurance
C05002E	- Child covered by Medicaid
C05002F	- Child covered by Uniform Services Family Health Plan(USFHP)
C05002G	- Child covered by Federal Employee Health Benefit Program(FEHBP)
C05002H	- Child did not use health plan last 12 months
C05002I	- Not sure who child is covered by
C05003	- Which health plan did you use most
C05004	- Last 12 months:# months in a row child enrolled in health plan
C05005	- Type of facility child used most often
C05006	- Does child have personal Dr/Nurse

- C05007 - Rating of child's personal Dr/Nurse
- C05008 - Had same personal doctor/nurse before joining this health plan
- C05009 - How much problem to get personal Dr/Nurse
- C05010 - Talk about feeling/growing/behaving
- C05011 - Child has medical/behavioral/other condition lasting >3 months
- C05012 - Dr understands med/behvrl/othr cndtn's effect on child's daily life
- C05013 - Dr understands med/behvrl/othr cndtn's effect on family's daily life
- C05014 - Does child have primary care manager
- C05015 - Know name of child's primary care mgr
- C05016 - In last 12 mos how much of problem to see PCM
- C05017 - Is primary care mgr military or civilian
- C05018 - Did you or a doctor think child needed to see specialist
- C05019 - How much problem to see specialist that child needed to see
- C05020 - In last 12 mos did child see specialist
- C05021 - Rating of specialist seen most often
- C05022 - Specialist same as personal Dr
- C05023 - Call during regular hours to get help/advice
- C05024 - Called during regular hours did you get help
- C05025 - Have illness/injury that needed care right away
- C05026 - Get needed care as soon as wanted
- C05027 - Make apptmnt for regular/routine healthcare
- C05028 - How often child got apptmnt for care as soon as wanted
- C05029 - Times to ER
- C05030 - Times to Dr office/Clinic (excluding ER)
- C05031 - Parent/Dr believed child needed care/tests/treatment
- C05032 - Problem to get necessary care
- C05033 - Needed approval from child's health plan for any care/tests/treatment
- C05034 - Problem wait for approval
- C05035 - Taken to exam room within 15 minutes
- C05036 - How often staff treat w/courtesy & respect
- C05037 - How often were staff helpful
- C05038 - How often did staff listen carefully
- C05039 - How often did staff explain things to you
- C05040 - How often staff respect what had to say
- C05041 - Child able to talk to Dr
- C05042 - Dr explain in way for child to understand
- C05043 - How often spend enough time w/child
- C05044 - Have questions about child's health or health care
- C05045 - How often child's Dr made it easy to discuss concerns
- C05046 - How often you got specific info needed from child's Dr
- C05047 - How often you had your questions answered by child's Dr
- C05048 - Were any decisions made about your child's health care
- C05049 - How often child's Dr involved you as much as you wanted when decisions were made
- C05050 - Rating of child's healthcare
- C05051 - Child enrolled in any kind of school or daycare
- C05052 - Needed child's Dr to contact school about child's health
- C05053 - Got help needed from child's Dr in contacting child's school
- C05054 - Got special medical devices for child: eg walker, oxygen equipmnt
- C05055 - Problem getting special medical equipment for child
- C05056 - Someone from health plan/Dr's office helped get special med equipment
- C05057 - Got special therapy for child: eg physical/occupational/speech therapy
- C05058 - Problem getting special therapy for child
- C05059 - Someone from health plan/Dr's office helped get special therapy for child
- C05060 - Got treatment/counseling for child's emotnl/develpmnt/behavrl prblm
- C05061 - Problem getting treatment or counseling for child
- C05062 - Someone from health plan/Dr's office helped get treatmnt/counseling
- C05063 - Child got care from more than one kind of health care provider

C05064	- Someone from health plan/Dr's office helped coordinate child's care from different services
C05065	- Look for info/written material
C05066	- Problem to find/understand info in written material
C05067	- Call customer service to get info
C05068	- Problem get help when call customer service
C05069	- Experience with paperwork
C05070	- Problem with paperwork
C05071	- Rating of experience with child's health plan
C05072	- Child get prescripton or you refilled child's prescription
C05073	- Problem getting child's prescription medicine
C05074	- Someone from health plan/Dr's office helped get child's prescription
C05075	- Rate child's overall health
C05076	- Child use medicine prescribed by Dr
C05077	- Medicine b/c medical,behavioral,other
C05078	- Medicine b/c condition expected last>=12 mos
C05079	- Child needs/uses more medical,mntl,eductnl services than is usual
C05080	- Use services b/c of medical/behavioral/othr health condition
C05081	- Svcs b/c condition expected last>=12 mos
C05082	- Limited/prevented in ability
C05083	- Limited b/c medical, behavioral, other
C05084	- Limited b/c condition expected last>=1yr
C05085	- Get special therapy
C05086	- Therapy b/c medical, behavioral, other condition
C05087	- Therapy b/c condition expected to last>=1yr
C05088	- Problem for which gets trtmnt/counseling
C05089	- Trtmnt/counseling b/c conditn last>=1yr
C05090A	- Child receives services under PFPWD/ECHO
C05090B	- Child receives services under ICMP-PEC
C05090C	- Child receives services under CCTP
C05090D	- Child doesn't receive PFPWD/ECHO/ICMP-PEC/CCTP
C05091	- Child's disorder requires care frm specialist
C05092	- Family enrolled in EFMP
C05093F	- Feet portion of child's height without shoes
C05093I	- Inches portion of child's height without shoes
C05094	- Child's weight without shoes on in pounds
C05095	- Past Week: Days child exercised for at least 20 min with exertion
C05096	- Past Week: Days child exercised for at least 30 min without exertion
C05097	- Past Week: Hours per day child watched TV, DVDs, and video
C05098	- Past Week: Child played video game/used computer
C05099	- Past Week: Times child ate fast food
C05100	- Past Year: Child wore seatbelt/rode in safety seat
C05101	- Past Year: Child wore helmet while riding bicycle
C05102	- Past Year: Child wore helmet while rollerblading/skateboarding
C05103	- How old is your child
C05104	- Is child male or female
C05105A	- Child Hispanic/Latino: No
C05105B	- Child Hispanic: Mexican/Mexican American/Chicano
C05105C	- Child Hispanic: Puerto Rican
C05105D	- Child Hispanic: Cuban
C05105E	- Child Hispanic: Other Spanish/Hispanic/Latino
C05105	- Is child Hispanic/Latino
C05106A	- Child race: White
C05106B	- Child race: Black
C05106C	- Child race: American Indian/Alaskan
C05106D	- Child race: Asian
C05106E	- Child race: Native Hawaiian/Pacific Islander
C05107	- Your age now

C05108	- Are you male or female
C05109	- Highest grade/level you completed
C05110	- How are you related to the policy holder
C05111	- How related to child

SYNOVATE SURVEY FIELDING VARIABLES

ONTIME	- On time indicator
FLAG_FIN	- Final Disposition
DUPFLAG	- Multiple Response Indicator
WEB	- Web/mail-out survey indicator

CODING SCHEME FLAGS AND COUNTS

N1	- Coding Scheme Note 1
N2	- Coding Scheme Note 2
N3	- Coding Scheme Note 3
N4	- Coding Scheme Note 4
N5	- Coding Scheme Note 5
N6	- Coding Scheme Note 6
N7	- Coding Scheme Note 7
N8	- Coding scheme Note 8
N9	- Coding scheme Note 9
N10	- Coding Scheme Note 10
N11	- Coding Scheme Note 11
N12	- Coding Scheme Note 12
N13	- Coding Scheme Note 13
N14	- Coding Scheme Note 14
N15	- Coding Scheme Note 15
N16	- Coding Scheme Note 16
N17	- Coding Scheme Note 17
N18	- Coding Scheme Note 18
N19	- Coding Scheme Note 19
N20	- Coding Scheme Note 20
N21	- Coding Scheme Note 21
N22	- Coding Scheme Note 22
N23	- Coding Scheme Note 23
N24	- Coding Scheme Note 24
N25	- Coding Scheme Note 25
N26	- Coding Scheme Note 26
N27	- Coding Scheme Note 27
N28	- Coding Scheme Note 28
N29	- Coding Scheme Note 29
N30	- Coding Scheme Note 30
N31	- Coding Scheme Note 31
MISS_1	- Count of: Violates Skip Pattern
MISS_4	- Count of: Incomplete grid error
MISS_5	- Count of: Dont know or not sure
MISS_6	- Count of: Not applicable - valid skip
MISS_7	- Count of: Out-of-range error
MISS_8	- Count of: Multiple response error
MISS_9	- Count of: No response - invalid skip
MISS_TOT	- Total number of missing responses

CONSTRUCTED VARIABLES

CONUS	- CONUS - CONUS/OCONUS Indicator
XENRLLMT	- Enrollment in TRICARE Prime
XENR_PCM	- Enrollment by PCM type
XINS_COV	- Insurance Coverage
XBNFGRP	- Constructed Beneficiary Group
XBMIPCT	- Body Mass Index Percentile
XBMICAT	- Body Mass Index Category

XTNEXREG	- TNEX Region
KMILOFFC	- Office wait of more than 15 minutes-Mil
KCIVOFFC	- Office wait of more than 15 minutes-Civ
KBGPRB1	- Big problem getting referrals to spclst
KBGPRB2	- Big problem getting necessary care
KMILOP	- Outpatient visits to military facility
KCIVOP	- Outpatient visits to civilian facility
KCIVINS	- Beneficiary covered by civilian insurance

WEIGHTS

BWT	- BWT - Basic Sampling Weight
ADJWT	- ADJWT - Adjusted Weight
POP	- DEERS population by CELLNAME for weights
WRWT	- Final Weight
WRWT1	- Replicated/JackKnife Weight 1
WRWT2	- Replicated/JackKnife Weight 2
WRWT3	- Replicated/JackKnife Weight 3
WRWT4	- Replicated/JackKnife Weight 4
WRWT5	- Replicated/JackKnife Weight 5
WRWT6	- Replicated/JackKnife Weight 6
WRWT7	- Replicated/JackKnife Weight 7
WRWT8	- Replicated/JackKnife Weight 8
WRWT9	- Replicated/JackKnife Weight 9
WRWT10	- Replicated/JackKnife Weight 10
WRWT11	- Replicated/JackKnife Weight 11
WRWT12	- Replicated/JackKnife Weight 12
WRWT13	- Replicated/JackKnife Weight 13
WRWT14	- Replicated/JackKnife Weight 14
WRWT15	- Replicated/JackKnife Weight 15
WRWT16	- Replicated/JackKnife Weight 16
WRWT17	- Replicated/JackKnife Weight 17
WRWT18	- Replicated/JackKnife Weight 18
WRWT19	- Replicated/JackKnife Weight 19
WRWT20	- Replicated/JackKnife Weight 20
WRWT21	- Replicated/JackKnife Weight 21
WRWT22	- Replicated/JackKnife Weight 22
WRWT23	- Replicated/JackKnife Weight 23
WRWT24	- Replicated/JackKnife Weight 24
WRWT25	- Replicated/JackKnife Weight 25
WRWT26	- Replicated/JackKnife Weight 26
WRWT27	- Replicated/JackKnife Weight 27
WRWT28	- Replicated/JackKnife Weight 28
WRWT29	- Replicated/JackKnife Weight 29
WRWT30	- Replicated/JackKnife Weight 30
WRWT31	- Replicated/JackKnife Weight 31
WRWT32	- Replicated/JackKnife Weight 32
WRWT33	- Replicated/JackKnife Weight 33
WRWT34	- Replicated/JackKnife Weight 34
WRWT35	- Replicated/JackKnife Weight 35
WRWT36	- Replicated/JackKnife Weight 36
WRWT37	- Replicated/JackKnife Weight 37
WRWT38	- Replicated/JackKnife Weight 38
WRWT39	- Replicated/JackKnife Weight 39
WRWT40	- Replicated/JackKnife Weight 40
WRWT41	- Replicated/JackKnife Weight 41
WRWT42	- Replicated/JackKnife Weight 42
WRWT43	- Replicated/JackKnife Weight 43
WRWT44	- Replicated/JackKnife Weight 44

WRWT45	- Replicated/JackKnife Weight 45
WRWT46	- Replicated/JackKnife Weight 46
WRWT47	- Replicated/JackKnife Weight 47
WRWT48	- Replicated/JackKnife Weight 48
WRWT49	- Replicated/JackKnife Weight 49
WRWT50	- Replicated/JackKnife Weight 50
WRWT51	- Replicated/JackKnife Weight 51
WRWT52	- Replicated/JackKnife Weight 52
WRWT53	- Replicated/JackKnife Weight 53
WRWT54	- Replicated/JackKnife Weight 54
WRWT55	- Replicated/JackKnife Weight 55
WRWT56	- Replicated/JackKnife Weight 56
WRWT57	- Replicated/JackKnife Weight 57
WRWT58	- Replicated/JackKnife Weight 58
WRWT59	- Replicated/JackKnife Weight 59
WRWT60	- Replicated/JackKnife Weight 60

2. Variable Naming Conventions

To preserve continuity with survey data from previous years, MPR followed the same variable naming conventions used for the 1999, 2000, 2002, 2003 and 2004 Child survey data. Variable naming conventions for the 2005 Child HCSDb are shown in Table 3.2. The public use files for the child survey will contain only recoded variables.

TABLE 3.2

NAMING CONVENTIONS FOR 2005 CHILD HCSDb VARIABLES (VARIABLES REPRESENTING SURVEY QUESTIONS)

1 st Character: Survey Type	2 nd – 3 rd Characters: Survey Year	4 th – 6 th Characters: Question #	Additional Characters: Additional Information
C= Health Beneficiaries (17 and Younger, child questionnaire)	05	001 to 111	A to I are used to label responses associated with a multiple response question

(CONSTRUCTED VARIABLES)

1 st Characters: Variable Group	Additional Characters: Additional Information
N=Coding scheme notes	Number referring to Note, e.g., N2
X=Constructed independent variable	Descriptive text, e.g., XENRLLMT
K=Constructed dependent variables	Descriptive text, e.g., KMILOP (total number of outpatient visits to military facility)

3. Missing Value Conventions

The 2005 conventions for missing variables are the same as the 2005 Adult HCSDb conventions and previous child HCSDb. All missing value conventions used in the 2005 HCSDb are shown in Table 3.3

TABLE 3.3
CODING OF MISSING DATA AND “NOT APPLICABLE” RESPONSES

ASCII or Raw Source Data	Edited and Cleaned SAS Data	Description
Numeric	Numeric	
-9	.	No response
-7	.O	Out of range error
-6	.N	Not applicable or valid skip
-5	.D	Scalable response of “Don’t know” or “Not sure”
-4	.I	Incomplete grid error
-1	.C	Question should have been skipped, not answered

B. CLEANING AND EDITING

Data cleaning and editing procedures ensure that the data are free of inconsistencies and errors. Standard edit checks include the following:

- Checks for multiple surveys returned for any one person
- Checks for multiple responses to any question that should have one response
- Range checks for appropriate values within a single question
- Logic checks for consistent responses throughout the questionnaire

We computed frequencies and cross tabulations of values at various stages in the process to verify the accuracy of the data. Data editing and cleaning proceeded in the following way:

1. Scan Review

Synovate spot checked the scanned results from the original survey to verify the accuracy of the scanning process and made any necessary corrections by viewing the returned survey.

2. Additional Synovate Editing and Coding

- In preparing the database for MPR, Synovate used variable names and response values provided by MPR in the annotated questionnaire (see Appendix A). Synovate delivered to MPR a database in SAS format. In this database, any questions with no response were encoded with a SAS missing value code of '.'.

3. Duplicate or Multiple Surveys

At this stage, Synovate delivered to MPR a file containing one record for every beneficiary in the sample, plus additional records for every duplicate survey or multiple surveys received from any beneficiary. These duplicates and multiples were eliminated during record selection, and only the most complete questionnaire in the group was retained in the final database. Record selection is discussed in Section 3.C.

4. Removal of Sensitive or Confidential Information

The file that MPR received from Synovate contained sensitive information such as social security number (SSN). Any confidential information was removed from the file. Each beneficiary had already been given a generic ID (MPRID) substitute during sample selection, the MPRID was retained as a means to uniquely identify each individual.

5. Initial Frequencies

MPR computed frequencies for all fields in the original data file. These tabulations served as a reference for the file in its original form and allowed comparison to final frequencies from previous years, helping to pinpoint problem areas that needed cleaning and editing. MPR examined these frequencies and cross-tabulations, using the results to adapt and modify the cleaning and editing specifications as necessary.

6. Data Cleaning and Recoding of Variables

MPR's plan for data quality for both versions of the child questionnaire is found in the 2005 Child Coding Scheme. It contains detailed instructions for all editing procedures used to correct data inconsistencies and errors. The Coding Scheme tables are found in Appendix D. These tables outline in detail the approach for recoding self-reported fields, doing range checks, logic checks, and skip pattern checks to insure that responses are consistent throughout the questionnaire. The Coding Scheme tables specify all possible original responses and any recoding, also indicating if backward coding or forward coding was used. Every skip pattern is assigned a note number shown in the annotated questionnaire (Appendix A). This note number defines the flag (for example, the Note 5 flag is N5) that is set to indicate the pattern of the original responses and any recoding. Thus, if the value of N5 is 2, the reader can look at line 2 in the Note 5 table for the original and recoded response values.

The SAS program implementing the Coding Scheme is found in Appendix F-2.

a. Skip Pattern Checks

At several points in the survey, the respondent should skip certain questions. If the response pattern is inconsistent with the skip pattern, each response in the series will be checked to determine which are most accurate, given the answers to other questions. Questions that are appropriately skipped were set to the SAS missing value of '.N'. Inconsistent responses, such as answering questions that should be skipped or not answering questions that should be answered, were examined for patterns that could be resolved. Frequently, responses to subsequent questions

provide the information needed to infer the response to a question that was left blank. 2005 Child Coding Scheme (see Appendix D) specifically addresses every skip pattern and shows the recoded values for variables within each pattern; we back coded and/or forward coded to ensure that all responses are consistent within a sequence.

b. Missing Values

Synovate initially encoded any question with missing responses to a SAS missing value code of ' '. After verifying skip patterns, MPR recoded some of these responses to reflect valid skips (SAS missing value code of '.N'). The complete list of codes for types of missing values such as incomplete grids, and questions that should not have been answered is shown in Table 3.3.

Occasionally, missing questionnaire responses can be inferred by examining other responses. For example, if a respondent fails to answer Question 27 regarding appointments made by sponsors for their child for regular or routine care, but answers Question 28 about how often their child got an appointment for regular or routine care as soon as they wanted, we can reason that they did make an appointment in the past 12 months. Using this technique, we successfully recoded some missing questionnaire responses to legitimate responses.

7. Quality Assurance

MPR created an edit flag for each Coding Scheme table that indicates what, if any, edits were made in the cleaning and editing process. This logic was also used in previous years; variables such as N5 indicate exactly what pattern of the Coding Scheme was followed for a particular set of responses. These edit flags have a unique value for each set of original and recoded values, allowing us to match original values and recoded values for any particular sequence.

In order to validate the editing and cleaning process, MPR prepared cross-tabulations between the original variables and the recoded variables with the corresponding edit flag. This revealed any discrepancies that needed to be addressed. In addition, we compared unweighted frequencies of each variable with the frequencies from the original file to verify that each variable was accurately recoded. MPR reviewed these tabulations for each variable in the survey. If necessary, the earlier edit procedures were modified and the Coding Scheme program rerun. The resulting file was clean and ready for weighting adjustments and constructed variables.

C. RECORD SELECTION

To select final records, we first defined a code that classifies each sampled beneficiary as to his/her final response status. To determine this response status, we used postal delivery information provided by Synovate for each sampled beneficiary. This information is contained in the FLAG_FIN variable and is described in Table 3.4.

TABLE 3.4
FLAG_FIN VARIABLE

Value	Questionnaire Return Disposition	Reason/Explanation Given	Eligibility
1	Returned survey	Completed and returned	Eligible
2	Returned ineligible	Returned with at least one question marked and information that the beneficiary was ineligible	Ineligible
3	Returned blank	Information sent that beneficiary is temporarily ill or incapacitated	Eligible
4	Returned blank	Information sent that beneficiary is deceased	Ineligible
5	Returned blank	Information sent that beneficiary is incarcerated or permanently incapacitated	Ineligible
6	Returned blank	Information sent that beneficiary left military, or divorced after 6/16/05, or retired	Eligible
7	Returned blank	Information sent that beneficiary was not eligible on 6/16/05	Ineligible
8	Returned blank	Blank form accompanied by reason for not participating	Eligible
9	Returned blank	No reason given	----
10	No return	Temporarily ill or incapacitated. Information came in by phone	Eligible
11	No return	Active refuser. Information came in by phone	Eligible
12	No return	Deceased. Information came in by phone	Ineligible
13	No return	Incarcerated or permanently incapacitated. Information came in by phone	Ineligible
14	No return	Left military or divorced after 6/16/05, or retired. Information came in by phone	Eligible
15	No return	Not eligible on 6/16/05. Information came in by phone	Ineligible
16	No return	Other eligible. Information came in by phone	Eligible
17	No return	No reason	---
18	PND	No address remaining	---
19	PND	Address remaining at the close of field	---
20	Original Non-Locatable	No address at start of mailing	---
21	No return or returned blank	Written documentation declining participation, no reason given	Eligible
22	No return or returned blank	Hospitalized but no indication if temporary or permanent	---
23	Returned blank - deployed	Survey was returned blank along with information that the beneficiary was deployed.	Eligible
24	No return- deployed	Survey was not returned, beneficiary was deployed	Eligible
25	Deceased	Updating process identified beneficiary as deceased.	Ineligible
26	Ineligible	Updating process identified beneficiary as not eligible for Military Health System Plan	Ineligible

Using the above variables in Table 3.4, we classified all sampled beneficiaries into four groups:

- **Group 1:** Eligible, Questionnaire Returned. Beneficiaries who were eligible for the survey and returned a questionnaire with at least one question answered (FLAG_FIN = 1)
- **Group 2:** Eligible, Questionnaire Not Returned (or returned blank). Beneficiaries who did not complete a questionnaire but who were determined to be eligible for military health care on June 16, 2005, that is, not deceased, not incarcerated, and not permanently hospitalized (FLAG_FIN = 3, 6, 8, 10, 11, 14, 16, 21, 23, 24)
- **Group 3:** Ineligible beneficiaries who were ineligible because of death, institutionalization, divorce, or no longer being in the MHS as of June 16, 2005 (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15, 25, 26)
- **Group 4:** Eligibility Unknown. Beneficiaries who did not complete a questionnaire and for whom survey eligibility could not be determined (FLAG_FIN = 9, 17, 18, 19, 20, 22)

Group 1 was then divided into two subgroups according to the number of survey items completed (including legitimate skip responses):

- G1-1. Complete Questionnaire Returned
- G1-2. Incomplete Questionnaire Returned

G1-1 consists of eligible respondents who answered “enough” questions to be classified as having completed the questionnaire. G1-2 consists of eligible respondents who answered only a few questions. To determine if a questionnaire is complete, 23 key questions were adapted from the complete questionnaire rule for the CAHPS 3.0. The key questions are: 3, 4, 5, 6, 14, 18, 23, 25, 27, 29, 30, 65, 67, 69, 71, 75, 104, 105, 106, 107, 108, 109, and 111. If thirteen or more of these key items are completed, then the questionnaire can be counted as complete.

Group 3 was then divided into two subgroups according to how ineligible beneficiaries were identified:

- G3-1. Returned ineligible
- G3-2. Ineligible at time of STI address update

G3-1 consists of ineligible beneficiaries who responded to the survey request, but told us that they were ineligible. G3-2 consists of beneficiaries identified as ineligible during the updating process. Furthermore, we also subdivided Group 4 into the following:

- G4-1 for Locatable-blank return/no reason or no return/no reason (FLAG_FIN = 9, 17, 22)
- G4-2 for Nonlocatable-postal non-deliverable/no address, postal non-deliverable/had address, or original nonlocatable (FLAG_FIN = 18, 19, 20).
- G4-3 for Nondelivered due to processing error.

With this information, we can calculate the location rate (see Section 4.A).

With a code (FNSTATUS) for the final response/eligible status, we classified all sampled beneficiaries using the following values of FNSTATUS:

- 11 for G1-1
- 12 for G1-2
- 20 for Group 2
- 31 for G3-1
- 32 for G3-2

- 41 for G4-1
- 42 for G4-2
- 43 for G4-3

There were 620 duplicate questionnaires in the data set Synovate delivered. All duplicates were classified into one of the above six groups. We then retained the one questionnaire for each beneficiary that had the most "valid" information for the usual record selection process. For example, if two returned questionnaires from the same beneficiary have FNSTATUS code values of 11, 12, 20, 41, or 42, we retained the questionnaire with the smaller value. If one of a pair of questionnaires belongs to Group 3 (FNSTATUS = 3, i.e., ineligible), then we regarded the questionnaire as being ineligible. However, if questionnaires from the same beneficiary have FNSTATUS code values of 31 and 32, we retained the value of 32.

Only beneficiaries with FNSTATUS = 11 were retained in the final child HCSDb file. All other records were dropped.

D. CONSTRUCTED VARIABLES

One of the most important aspects of database development is the formation of constructed variables and scale variables to support analysis. Constructed variables are formed when no single question in the survey defines the construct of interest. In Table 3.1 there is a list of all constructed variables for 2005. Each constructed variable is discussed in this section and the relevant piece of SAS code is shown. All SAS programs can be found in Appendix F and Appendix G.

1. Demographic Variables

a. Region (XTNEXREG)

This variable groups the CONUS regions into 4 regions: north, south, west, and overseas.

North contains regions '01', '02', and '05'. South contains regions '03', '04', and '06'. West consists of regions '07', '08', '09', '10', '11', '12', and '16'. Overseas is comprised of the remainder of the CONUS regions.

```
/* CREATE XTNEXREG. */  
IF DHSRGN IN ('01','02','05') THEN XTNEXREG=1;  
ELSE IF DHSRGN IN ('03','04','06') THEN XTNEXREG=2;  
ELSE IF DHSRGN IN ('07','08','09','10','11','12','AK') THEN XTNEXREG=3;  
ELSE IF DHSRGN IN ('13','14','15') THEN XTNEXREG=4;  
ELSE IF DHSRGN IN ('16') THEN XTNEXREG=.;
```

2. TRICARE Prime Enrollment and Insurance Coverage

a. TRICARE Prime Enrollment Status (XENRLLMT)

For reporting purposes, a person is considered enrolled in TRICARE Prime if the enrollment type (ENBGSMPL), based on DEERS data, indicates that they were enrolled at the time of data collection. The two categories for TRICARE Prime enrollment are as follows:

1 = Enrollees

2 = Not enrolled in TRICARE Prime

. = Unknown

```
/* XENRLLMT--ENROLLMENT STATUS */
IF ENBGSMPL IN ('01','02','03','05','06') THEN XENRLLMT = 1; /* Enrolled */
ELSE IF ENBGSMPL IN ('04','07') THEN XENRLLMT = 2; /* Not Enrolled */
```

b. TRICARE Prime Enrollment Status by Primary Care Manager (XENR_PCM)

This variable determines if a child has a civilian or a military primary care manager (PCM).

1 = Enrolled with a military PCM

2 = Enrolled with a civilian PCM

3 = Not enrolled

```
/* XENR_PCM--ENROLLMENT BY PCM TYPE */
IF ENBGSMPL IN ('01','03','06') THEN XENR_PCM=1; /* 1=Enrolled - mil PCM */
ELSE IF ENBGSMPL IN ('02','05') THEN XENR_PCM=2; /* 2=Enrolled - civ PCM */
ELSE IF ENBGSMPL IN ('04','07') THEN XENR_PCM=3; /* 3=Not Enrolled */
```

c. Most-Used Health Plan (XINS_COV)

The respondent's most-used health plan comes directly from Question 3. The three categories for this variable are as follows:

1 = TRICARE Prime

2 = TRICARE Standard/Extra (CHAMPUS)

3 = Other civilian health insurance or civilian HMO

. = Unknown

```
/* XINS_COV--INSURANCE COVERAGE */
IF C05003 = 1 THEN XINS_COV = 1; /* Prime */
ELSE IF C05003 = 3 THEN XINS_COV = 2; /* Standard/Extra */
ELSE IF C05003 IN (5,6,7,8,9) THEN XINS_COV = 3; /* Other Insurance */
```

d. Types of Coverage (KCIVINS)

This variable was created to indicate the types of insurance that respondents use:

- Is the respondent covered by civilian insurance (KCIVINS)

This variable has the following values:

1 = Yes

2 = No

. = Unknown

```
/* KCIVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
IF (C05002C=1 OR C05002D=1 OR C05002E=1 OR C05002G=1)
THEN KCIVINS=1; /* YES */
ELSE KCIVINS=2; /* NO */
```

e. Beneficiary group (XBNFGRP)

This variable is equal to the sampling variable BGCSMPL and has the following values:

1 = Active duty

2 = Family of active duty

3 = Family of retirees or survivors

. = Unknown

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-
Active Duty and Family Members of Active Duty */
XBNFGRP=BGCSMPL;

3. Access to Care (KMILOFFC, KCIVOFFC, KBGPRB1, KBGPRB2)

Many of the survey questions on access relate directly to a TRICARE performance standard. The questions in the Section "Your Child's Healthcare in the Last 12 Months" of the questionnaire refer to all healthcare received in the last 12 months. For these questions, we constructed binary variables, separately for respondents who used military and civilian facilities the most, indicating whether the TRICARE standard was met. Table 3.5 presents those standards that were analyzed in the reports. The new variables have the following values:

1 = Standard was met

2 = Standard was not met

. = Missing information

TABLE 3.5

TRICARE STANDARDS FOR ACCESS

Access Measure	TRICARE Standard	Variable Name	Relevant Question
Waiting Room Wait	Within 15 minutes	KMILOFFC, KCIVOFFC	35

```

/* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES
KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
IF C05005 = 1 THEN DO;                                /* Military */
  IF C05035 IN (1,2) THEN KMILOFFC = 1;                /* Yes */
  ELSE IF C05035 IN (3,4) THEN KMILOFFC = 2;          /* No */
END;
ELSE IF C05005 = 2 THEN DO;                            /* Civilian */
  IF C05035 IN (1,2) THEN KCIVOFFC = 1;                /* Yes */
  ELSE IF C05035 IN (3,4) THEN KCIVOFFC = 2;          /* No */
END;
```

Question 19 asks how much of a problem, if any, it was to get a referral to a specialist. The responses to this question are regrouped by a binary variable KBGPRB1. KBGPRB1 looks at these two categories:

1 = Those who reported a “big problem”

2 = Those who reported not a “big problem”

. = Missing response

```
/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */  
IF C05019 = 1 THEN KBGPRB1 = 1;          /* YES */  
ELSE IF C05019 IN (2,3) THEN KBGPRB1 = 2; /* NO */
```

Similarly, variable KBGPRB2 was constructed. Question 32 asks about how much of a problem, if any, it was to get the care you or a doctor believed necessary. The responses to this question are regrouped by a binary variable KBGPRB2. KBGPRB2 looks at these two categories:

1 = Those who reported a “big problem”

2 = Those who reported not a “big problem”

. = Missing response

```
/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */  
IF C05032 = 1 THEN KBGPRB2 = 1;          /* YES */  
ELSE IF C05032 IN (2,3) THEN KBGPRB2 = 2; /* NO */
```

4. Utilization

a. Outpatient Utilization (KMILOP, KCIVOP)

Question 30 contains the total number of outpatient visits. This is renamed to KMILOP or KCIVOP depending on the answer to Question 5. The new variables have the following values:

1 = no visits
2 = 1 visit
3 = 2 visits
4 = 3 visits
5 = 4 visits
6 = 5 to 9 visits
7 = 10 or more visits

```
/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY  
   KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */  
IF C05005 = 1 THEN KMILOP=C05030;  
ELSE IF (C05005=. AND C05030=.) THEN KMILOP=.;  
ELSE KMILOP = 1 ;  
IF C05005 = 2 THEN KCIVOP=C05030;  
ELSE IF (C05005=. AND C05030=.) THEN KCIVOP=.;  
ELSE KCIVOP = 1 ;
```

5. Child Body Mass Index

a. Percentile for Child Body Mass Index (XBMPCT)

The reported body mass index of children over age 24 months is assigned a percentile based on the 2000 Centers for Disease Control and Prevention (CDC) growth charts. The body mass index is equal to the child's weight in kilograms divided by the square of his or her height in meters. The program Create BMI.sas (Appendix F.5) first creates a dataset with the variables needed to call gc-calculate.sas (Appendix F.6). Gc-calculate calculates the percentiles for child body mass index

(BMIPCT) based on the CDC growth charts. If a child is in the 70th Percentile, this means compared to children of the same age and gender, 70 percent have a lower BMI. BMIPCT is renamed to XBMIPCT. Note: Qc-calculate.sas uses two variables, BMI and the child's age in months, not contained in the public use file.

b. Child Body Mass Index Category (XBMICAT)

First, certain observations are excluded as extreme height or weight outliers by comparison with CDC's growth charts. Then the variable OVER is defined by comparing BMIPCT to cutoff points identifying underweight and overweight children. It is renamed XBMICAT. This new variable has the following values:

1 = underweight
2 = at - risk
3 = normal
4 = underweight

```
IF exclude NE 2 THEN DO;  
  if BMIPCT ge 95 then over = 4;  
  else if 85 le BMIPCT lt 95 then over = 3;  
  else if 5 lt BMIPCT lt 85 then over = 2;  
  else if 0 le BMIPCT le 5 then over = 1;  
END;  
XBMICAT = over;
```

E. WEIGHTING PROCEDURES

Estimates based on the 2005 HCSDb must account for the survey's complex sample design and for the potential biasing effects due to nonresponse. As a part of sample selection, MPR constructed sampling weights (BWT) that reflect the differential selection probabilities used to sample beneficiaries across strata. Nonresponse can also lead to distortions of the respondent sample with respect to the total population of DoD health care beneficiaries. Adjustments were made to these sampling weights, BWT, to compensate for such distortions, using a weighting class method. These adjusted weights were also adjusted through the poststratification procedure to form the analysis weights, which we included in the final deliverable database. We also generated replicate weights for the final database so that users have the option of obtaining variance estimates with a replication method as well as the Taylor series method. This section presents these weighting procedures for the 2005 Child HCSDb.

1. Constructing the Sampling Weight

The sampling weight was constructed on the basis of the sample design. In the 2005 Child HCSDb, stratified sampling was used to select the samples that would receive the questionnaire. Sampling for the child survey was independently executed within strata defined by combinations of the three domains: enrollment status groups; age groups; and geographic areas.

The sample was selected with differential probabilities of selection across strata. Sample sizes were driven by predetermined precision requirements. For further details of the 2005 child sample design, see the *2005 Health Care Survey of DoD Beneficiaries: HCSDb Child Sample Report*. Our first step in weighting was to construct sampling weights that reflect these unequal sampling rates. These sampling weights can be viewed as the number of population elements that each sampled beneficiary represents. The sampling weight was defined as the inverse of the beneficiary's selection probability or:

$$(1) \quad W_s(h, i) = \frac{N(h)}{n(h)}$$

where:

$W_s(h, i)$ is the sampling weight for the i -th sampled beneficiary within the h -th stratum, $N(h)$ is the total number of beneficiaries in the h -th stratum, and $n(h)$ is the number of sampled beneficiaries from stratum h .

The sum of the sampling weights over selections from the h -th stratum equals the total population size of the h -th stratum or $N(h)$.

2. Adjustment for Total Nonresponse

Survey estimates obtained from respondent data only can be biased with respect to describing characteristics of the total population (Lessler and Kalsbeek 1992). To reduce this bias, we developed procedures to deal with the problems caused by nonresponse. Two types of nonresponse were associated with the 2005 Child HCSDb:

- Unit or total nonresponse occurs when a sampled beneficiary did not respond to the survey questionnaire (e.g., refusals, no questionnaire returned, blank questionnaire returned, bad address).
- Item nonresponse occurs when a question that should have been answered is not answered (e.g., refusal to answer, no response).

With high item response rates observed in previous Adult HCSDb surveys, statistical imputation was not used to compensate for item nonresponse in the 2005 Child HCSDb. To account for total nonresponse, we implemented a weighting class adjustment followed by a poststratification adjustment.

Weighting class adjustments were made by partitioning the sample into groups, called *weighting classes*, and then adjusting the weights of respondents within each class so that they sum to the weight total for nonrespondents and respondents from that class. Implicit in the weighting class adjustment is the assumption that — had the nonrespondents responded — their responses would have been distributed in the same way as the responses of the other respondents in their class.

The 2005 Child HCSDb weighting classes were defined on the basis of the stratification variables: TRICARE Prime enrollment status, age group, and geographic area. To avoid excessive variance inflation, we required that each weighting class have at least 20 eligible respondents and that the adjustment factor not exceed 4.

Nonresponse adjustment factors for the 2005 Child HCSDb were calculated in two steps. First, we adjusted the sampling weights to account for sampled beneficiaries for whom eligibility status could not be determined. Sampled beneficiaries were then grouped as follows according to their response status d:

- d=1 Eligible — completed questionnaire returned (FNSTATUS = 11)
- d=2 Eligible — incomplete or no questionnaire returned (FNSTATUS = 12 or 20)
- d=3 Ineligible — deceased, incarcerated, or permanently incapacitated beneficiary (FNSTATUS = 31)
- d=4 Eligibility unknown — no questionnaire or eligibility data (FNSTATUS = 41, 42 or 43)
- d=5 Ineligible — Ineligible at time of STI address update (FNSTATUS = 32)

Within weighting class c , the weights of the $d=4$ nonrespondents with unknown eligibility were redistributed to the cases for which eligibility was known ($d=1,2,3$), using an adjustment factor $A_{wc1}(c,d)$ that was defined to be zero for $d=4$ and defined to be one for $d=5$ and defined as:

$$(2) \quad A_{wc1}(c,d) = \frac{\sum_{i \in S(c)} W_s(c,i)}{\sum_{i \in S(c)} I_1(i)W_s(c,i) + \sum_{i \in S(c)} I_2(i)W_s(c,i) + \sum_{i \in S(c)} I_3W_s(c,i)} \quad \text{for } d = 1, 2, 3$$

where:

$A_{wc1}(c,d)$ is the eligibility-status adjustment factor for weighting class c and response status code d ,

$I_d(i)$ is the indicator function that has a value of 1 if sampled unit i has a response status code of d and 0 otherwise,

$S(c)$ is the set of sample members belonging to weighting class c , and

$W_s(c,i)$ is the sampling weight (BWT) for the i -th sample beneficiary from weighting class c before adjustment.

The adjustment $A_{wc1}(c,d)$ was then applied to the sampling weights to obtain the eligibility-status adjusted weight. Beneficiaries in weighting class c with response status code of d were assigned the eligibility-status adjusted weight:

$$(3) \quad W_{wc1}(c,d,i) = A_{wc1}(c,d) W_s(c,i)$$

Note that since $d=5$ cases have an adjustment factor of one, they have an adjusted weight equal to the sampling weight. Moreover, note that since $d=4$ cases have adjustment factors of zero, they also have adjusted weights of zero.

The next step in weighting was to adjust for the loss of completed questionnaires from beneficiaries known to be eligible. For this adjustment, the weighting class c from the previous step was again partitioned into groups according to the beneficiary's response status code d . Within weighting class c , the weights of the $d=2$ nonresponding eligibles were redistributed to the responding eligibles $d=1$, using an adjustment factor $A_{wc2}(c,d)$ that was defined to be zero for $d=2,4$. For Group 1 ($d=1$), the questionnaire-completion adjustment or $A_{wc2}(c,1)$ factor for class c was computed as:

$$(4) \quad A_{wc2}(c,1) = \frac{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i) + \sum_{i \in S(c)} I_2(i)W_{wc1}(c,i)}{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i)}$$

By definition, all $d=3$ and $d=5$ ineligible beneficiaries "respond," so the $d=3$ and $d=5$ adjustment factor is 1, or $A_{wc2}(c,3)=1$. The questionnaire-completion adjusted weight was calculated as the product of the questionnaire-completion adjustment $A_{wc2}(c,d)$ and the previous eligibility-status adjusted weight $W_{wc1}(c,d,i)$, or:

$$(5) \quad W_{wc2}(c,d,i) = A_{wc2}(c,d) W_{wc1}(c,d,i)$$

As a result of this step, all nonrespondents ($d=2,4$) had questionnaire-completion adjusted weights of zero, while the weight for ineligible cases ($d=3,5$) remained unchanged.

3. Poststratification

To minimize selecting more than one child per household, we assigned all children from a household to the same sampling stratum. Moreover, the sample frame file contained incorrect information on enrollment group (military versus civilian primary care manager (PCM) and enrolled versus not enrolled), and a process error led to the exclusion of 1,835 children from the records fielded for the survey. The excluded children were disproportionately under one year of age. Therefore, we needed to compensate for the resulting discrepancy in population totals by using poststratification for the 2005 HCSDB. Poststratification adjustments forced the adjusted weight totals to the DEERS population totals for the specified population groups that formed the *poststrata*. We used DEERS data as of June 10, 2005 as poststratification values for certain variables. Like stratum variables, poststratum variables are also a combination of three key domain variables: enrollment group, age group, and geographic area (TNEX regions). The construction of age was changed from the sampling strata to include four poststrata: (1) younger than 1 year old, (2) 1 through 5 years old, (3) 6 through 12 years old, and (4) 13 through 17 years old. The first age group adjusted for the data processing error. The enrollment group variable was changed to include separate poststrata for CONUS enrollees with a civilian PCM, enrollees with a military PCM, and nonenrollees to adjust for the incorrect PCM and enrollment sampling information. Construction of the TNEX region groups is the same as in sampling strata.

After creating the cross-classification of the three poststrata variables, enrollment group, age group, and super regions, an additional usual poststratification adjustment was implemented. To illustrate the use of poststratification, let g index poststrata, where $g = 1, 2, \dots, G$. The poststratification adjustment factor for the g -th poststrata was defined as:

$$(6) \quad A_{ps}(g) = \frac{N(g)}{\sum_{h,i \in S(g)} W_{wc2}(h,i)}$$

where:

$N(g)$ is the total number of beneficiaries in the DEERS frame associated with the g -th poststratum, and

$S(g)$ is the set of sample records that are found in the g -th poststratum.

The poststratified adjusted weight for the i -th sample record from the h -th design stratum and the g -th poststratum was then calculated as:

$$(7) \quad W_{ps}(g,h,i) = A_{ps}(g) W_{wc2}(h,i)$$

When summed over members of poststratum g , the poststratified weights now total $N(g)$. This poststratified weight is the final analysis weight used for all reporting and analysis.

4. Calculation of Jackknife Replicates

We constructed the 60 jackknife replicates as follows. First, the entire file of sampled beneficiaries was sorted according to stratification variables. Next, 60 mutually exclusive and exhaustive

systematic sub-samples of the full sample was identified in the sorted file.⁵ A jackknife replicate was then obtained by dropping one subsample from the full sample. By dropping each subsample in turn, the same number of different jackknife replicates as subsamples was defined. The entire weighting process as applied to the full sample was then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. A series of jackknife replicate weights (WRWT01-WRWT60) was then attached to each beneficiary record in the final database. Given jackknife replicate weights, WesVarPC[®] (Brick et al. 1996) can be used to construct jackknife replication variance estimates.

⁵With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on approximate normal distribution. Inferences with finite replicate number k are based on the student t distribution with $k-1$ degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

Chapter

4

Analysis

This chapter explains how the Child HCSDb variables were processed during the analysis phase of the project. It covers the procedure for calculating response rates, the method for estimating the variance of the statistics, significance tests, demographic adjustment, development of the dependent and independent variables for the analysis, and report production.

This year's results are being presented in an electronic format.

A. RESPONSE RATES

In this section, we present the procedures for response rate calculation along with a brief analysis of response rates for domains of interest. Response rates for the 2005 Child HCSDb were calculated in the same way as they were calculated for the 2005 Adult HCSDb. The procedure is based on the guidelines established by the Council of American Survey Research Organizations (CASRO 1982) in defining a response rate.

1. Definition of Response Rates

In calculating response rates and related measures, we considered two different rates: *unweighted* and *weighted*. The unweighted version of the response rate represents the counted proportion of respondents among all sampled units, and the weighted version indicates the estimated proportion of respondents among all population units. When sampling rates across all strata are equal, these two approaches give the same result. However, the 2005 HCSDb used different sampling rates across strata. So, it is useful to show both "unweighted" and "weighted" response rates. We calculated these two response rates in the same way. As presented in Chapter 3.C, all sampled beneficiaries were completely classified into these four main (eight detailed) groups: Group 1 (G1-1 and G1-2), Group 2, Group 3, and Group 4 (G4-1, G4-2 and G4-3):

- Group 1 (G1-1): eligible and complete questionnaire returned;
- Group 1 (G1-2): eligible and incomplete questionnaire returned;
- Group 2: eligible and questionnaire not returned;
- Group 3 (G3-1): ineligible
- Group 3 (G3-2): ineligible
- Group 4 (G4-1): eligibility unknown and locatable
- Group 4 (G4-2): eligibility unknown and unlocatable; and
- Group 4 (G4-3): eligibility unknown and nondelivered.

The unweighted counts reflect the number of sampled cases (n_i for Group i , where $i=1,2,3,4$), and the weighted counts reflect the estimated population size¹ (\hat{N}_i for Group i , where $i=1,2,3,4$) for the four main response categories.

¹The weighted sum of sampled units can be regarded as an estimated population size. The base weight (BWT) was used in calculating weighted counts, where BWT is the inverse of selection probability.

These weighted and unweighted counts were also calculated for the subgroups G1-1, G1-2, G3-1, G3-2, G4-1, and G4-2, where we denote the unweighted counts by $n_{1,1}$, $n_{1,2}$, $n_{3,1}$, $n_{3,2}$, $n_{4,1}$, $n_{4,2}$, and $n_{4,3}$, and the weighted counts by $\hat{N}_{1,1}$, $\hat{N}_{1,2}$, $\hat{N}_{3,1}$, $\hat{N}_{3,2}$, $\hat{N}_{4,1}$, $\hat{N}_{4,2}$, and $\hat{N}_{4,3}$. With these values, we calculated response rates as follows. Response rates can be partitioned into two measures: the location rate and the completion rate. To calculate the location rate, we first estimated the number of Group 4 “located” beneficiaries who were expected to be eligible for the survey:

(1)

$$l = \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}} \right) n_{4,1} \quad \text{and} \quad l_w = \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}} \right) \hat{N}_{4,1}$$

where l and l_w are unweighted and weighted estimates of the number of “located” beneficiaries among Group 4. Then, the unweighted and weighted “location rates” are defined by:

(2)

$$LR = \frac{n_1 + n_2 + l}{n_1 + n_2 + n_4 \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}} \right)} \quad \text{and} \quad LR_w = \frac{\hat{N}_1 + \hat{N}_2 + l}{\hat{N}_1 + \hat{N}_2 + \hat{N}_4 \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}} \right)}$$

And the corresponding unweighted and weighted “completion rates” are defined by:

(3)

$$CR = \frac{n_{1,1}}{n_1 + n_2 + l} \quad \text{and} \quad CR_w = \frac{\hat{N}_{1,1}}{\hat{N}_1 + \hat{N}_2 + l_w}$$

The final response rates can be obtained by multiplying the location rate in Equation (2) by the completion rate in Equation (3).

(4)

$$FRR = LR \times CR \text{ and } FRR_w = LR_w \times CR_w$$

In the definitions in Equations (1) through (4), the subscript “w” indicates that all calculations involve weighted counts. The method that we used to calculate response rates is consistent with the CASRO guidelines.

2. Reporting

We examined response rates to identify patterns across different domains or characteristics. While analysts prefer weighted rates that reflect the estimated proportion of respondents among all population beneficiaries, operational staff are often interested in getting unweighted measures. All tables include unweighted and weighted values under columns headed “Unweighted” and “Weighted”, respectively. In the following, we focus on discussing unweighted response rates for

domains of interest. Table 4.1 includes response rates for the 2005 Child HCSDb as a whole, by enrollment status by age groups, and by super regions.

- Overall: The overall unweighted response rate for the 2005 Child HCSDb was about 29 percent (which is found in Table 4.1 in the row of "Overall" under the column of "RR" in "Unweighted").
- Enrollment status: Conus nonenrollees had an unweighted response rate of 27 percent, which is less than the rate for children enrolled in Prime (32 percent).
- Age group: Unweighted response rates according to age groups are: Sponsors of children younger than 6 years old - 27 percent; between 6 and 12 years old - 29 percent; between 13 and 17 years old - 32 percent
- Geographic area: Unweighted response rates according to region are: North – 31 percent; South – 28 percent; West – 31 percent; and overseas – 23 percent.

TABLE 4.1

UNWEIGHTED AND WEIGHTED RESPONSE RATES OVERALL, BY ENROLLMENT GROUP,
BY AGE GROUP, REGION AND TNEX REGION

		RR (%)	RR _w (%)
Overall		29.3	29.9
Enrollment Group	CONUS-Enrolled	31.8	32.0
	CONUS-Not enrolled	27.1	26.6
	OCONUS	22.7	22.1
Age Group	Younger than 6 years old	27.3	28.2
	Between 6 and 12 years old	29.0	29.5
	Between 13 and 17 years old	31.5	32.2
Region	CONUS	30.0	30.5
	OCONUS	22.7	22.1
TNEX Region	North	31.3	31.9
	South	27.9	28.6
	West	30.7	31.3
	Overseas	22.7	22.1

Note: TNEX region refers to beneficiary's TNEX region.

B. VARIANCE ESTIMATION

To calculate the standard errors (the squared roots of variances) of estimates for the 2005 HCSDb analyses, we used SUDAAN™ (Shah et al. 1996) and the Taylor series linearization method. For analysts who prefer a replication method, 60 replicate weights for jackknife replication are provided in the public use file. Here we describe variance estimation methods for the Taylor series linearization method and the jackknife replication method.

1. Taylor Series Linearization

MPR uses Taylor series linearization to produce standard errors for the estimates from the 2005 Child HCSDb. For most sample designs, including the 2005 HCSDb, design-based variance estimates for linear estimators of totals and means can be obtained with explicit formulas. Estimators for nonlinear parameters such as ratios do not have exact expressions for the variance. The Taylor series linearization method approximates the variance of a nonlinear estimator with the variances of the linear terms from the Taylor series expansion for the estimator (Woodruff 1971). To calculate variance estimates based on the Taylor series linearization method, given HCSDb's stratified sampling design, we need to identify the stratum as well as the final analysis weight for each data record. We included these variables on the final database. For variance estimation, we use the general purpose statistical software package SUDAAN to produce Taylor series variance estimates. SUDAAN is the most widely used of the publicly available software packages based on the Taylor series linearization method. In SUDAAN, the user specifies the sampling design and includes variables recording stratum and the analysis weight for each record. MPR uses SAS to make camera-ready tables for numerical results from SUDAAN. There is no restriction to the number of strata in SUDAAN, so stratification effects can be incorporated in calculating standard errors.

Some of the reported estimates are composite scale scores that are linear functions of individual estimates. The sampling variance for these scale estimates can be directly obtained from the usual design-based variance estimation formula by incorporating the covariance terms among individual items within the scale.

(5)

$$\text{Let } \bar{y} = \frac{\sum_{h=1}^L \sum_{i=1}^{n_h} W_{hi} Y_{hi}}{\sum_h \sum_i W_{hi}}$$

denote an estimator of a composite scale where individual composite measure for beneficiary (h, i) consists of r items is thus denoted as:

(6)

$$Y_{hi} = \sum_{j=1}^r X_{hi,j} / r .$$

Then, a customary variance estimator of \bar{y} is the sum of the item variances and covariances among item estimates:

(7)

$$v(\bar{y}) = \frac{1}{r^2} \left\{ \sum_{j=1}^r v_j + \sum_{j \neq j'} \text{cov}(\bar{x}_j, \bar{x}_{j'}) \right\} ,$$

where v_j is a variance estimator of \bar{x}_j .

All of the variance components can be obtained from the usual survey specific software such as SUDAAN and WesVarPC, which are described above.

2. Jackknife Replication

Jackknife replicate weights can be used to calculate the standard errors of estimates. An estimate of a characteristic of interest is calculated (with the same formula as the full sample estimate) using each set of replicate weights; these replicate estimates are used to derive the variance of the full sample statistic.

a. Calculation of Jackknife Replicates

A series of jackknife replicate weights are calculated and attached to each beneficiary record in the database. In jackknife replication, a prescribed number of replicates are generated by deleting selected cases from the full sample. Given jackknife replicate weights, WesVarPC[®] (Brick et al. 1996) can be used to produce variance estimates. WesVarPC allows jackknife variance estimation for two primary sampling units per stratum up to 100 strata, or up to 256 replicates without stratification. The 2005 HCSDb for children involves 27 strata. To use WesVarPC, we must modify the actual design to create appropriate replicates. The two options for doing this are to (1) form fewer than 256 replicates by ignoring stratification or (2) form replicates by assigning each unit to one of two pseudo primary sampling units (PSUs) within each of the 27 strata. For either option, the entire weighting process as described in the previous sections must be applied for each jackknife replicate.

To be consistent with the adult survey, we use option 1 to construct the jackknife replicates as follows. First, the entire file of sampled beneficiaries is sorted in sample selection order in which stratification variables are only used in the sorting process. Next, 60 mutually exclusive and exhaustive systematic subsamples¹ of the full sample are identified in the sorted file. A jackknife replicate is then obtained by dropping one subsample from the full sample. As each subsample is dropped in turn, the same number of different jackknife replicates as subsamples is defined. The entire weighting process as applied to the full sample is then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. Then, the series of jackknife replicate weights (WRWT01 – WRWT60) is attached to the final data in order to construct jackknife replication variance estimates.

b. Software for Jackknife Replication

The jackknife variance of the full sample statistic of interest is estimated from the variability among the replicated estimates. When the replicate weights are produced according to the above procedure, jackknife replicate standard errors can be produced using custom written software or publicly available statistical software. For instance, WesVarPC is a popular software package that calculates standard errors based on replication methods. It produces standard errors for functions of survey estimates such as differences and ratios as well as simple estimates such as mean, proportion, and totals. Additional details about the jackknife replication approach are given in Wolter (1985). Like other replication methods, the jackknife variance estimation can be easily implemented for any form of estimate without further algebraic work.

C. SIGNIFICANCE TESTS

In the child TRICARE Consumer Report statistical testing is done to show whether values in the report cards are statistically different from external benchmarks.

¹With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on an approximate normal distribution. Inferences with finite replicate numbers k are based on the student t distribution with $k-1$ degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

The null hypothesis for this significance test is that a mean value is essentially equal to the benchmark, and the alternative is that a mean value is different from the benchmark. That is, we are testing:

$$H_0: \mu_1 = \mu_2 \quad \text{vs.} \quad H_a: \mu_1 \neq \mu_2$$

For instance, μ_1 might represent the characteristic of interest for mature regions while μ_2 might represent the benchmark.

With large sample sizes, the estimator $\bar{y}_1 - \bar{y}_2$ is approximately distributed as a normal distribution with mean zero and variance $\sigma^2_{\bar{y}_1 - \bar{y}_2}$ under the null hypothesis. In testing the hypothesis, a test Statistic T is thus calculated as:

$$T = \frac{\bar{y}_1 - \bar{y}_2}{\hat{\sigma}_{\bar{y}_1 - \bar{y}_2}}.$$

With $\alpha = 0.05$, the null hypothesis should be rejected if $|T| > 1.96$. The denominator of T, the standard error of $\bar{y}_1 - \bar{y}_2$, can be calculated as the square root of the variance estimator $\sigma^2_{\bar{y}_1 - \bar{y}_2}$:

$$\hat{\sigma}^2_{\bar{y}_1 - \bar{y}_2} = \text{var}(\bar{y}_1) + \text{var}(\bar{y}_2) - 2 \text{cov}(\bar{y}_1, \bar{y}_2).$$

If \bar{y}_1 and \bar{y}_2 are independent, then the covariance term equals zero and thus the variance estimator can be easily obtained as the sum of two individual variance estimators. With an external benchmark, the covariance can be assumed to be zero.

D. DEMOGRAPHIC ADJUSTMENTS

All scores in the TRICARE Beneficiary Reports are adjusted for patient characteristics affecting their scores. Scores can be adjusted for a wide range of socioeconomic and demographic variables.

The purpose of risk adjustment is to make comparisons of outcomes, either internally or to external benchmarks, that control for characteristics beyond the health care provider's control. Based on previous work with satisfaction scales derived from CAHPS, it appears that satisfaction increases with age and decreases with poor health across social classes and insurance types. Besides, controlling for these factors, the methodology used does the following:

- Permits risk-adjusted comparisons among regions and catchment areas within and across beneficiary and enrollment groups
- Permits testing the hypothesis that the difference in risk-adjusted scores between a region or catchment area and a benchmark is due to chance
- Is appropriate for CAHPS composites and global satisfaction ratings.

The methodology used is an adaptation of that found in CAHPS 2.0 Survey and Reporting Kit (DHHS, 1999)

The model used for this adjustment is:

$$Y_{jkl} = \beta_{1l}A_{1l} + \beta_{2l}A_{2l} + \dots + \beta_{7l}A_{7l} + \beta_{8l}P_l + \gamma_{1l}C_{1l} + \gamma_{2l}C_{2l} + \gamma_{3l}C_{3l} + \varepsilon_{jkl},$$

where Y_{jkl} is a dependent variable, β_{ql} 's are parameters to be estimated, A_{ql} 's are age dummy variables ($A_{ql} = 1$ if the parent is in age group q , and 0 otherwise; A_1 = age 18-24, A_2 = age 25-34, A_3 = age 35-44, A_4 = age 45-54, A_5 = age 55-64, A_6 = age 65-74, and A_7 = age 75 and older), P_l is health status, C_1 = age younger than 6, C_2 = age 6-12, C_3 = age 13-17. The subscripts j , k and l refer to the region, child beneficiary, and beneficiary or enrollment group, respectively.

Given 3 regions, the specifications that we use are:

$$\varepsilon_{jkl} = \delta_{0l} + \delta_{1l}R_{1l} + \delta_{2l}R_{2l} + \delta_{3l}R_{3l} + w_{jkl},$$

where R_i 's are regional dummy variables ($R_{il} = 1$ if the beneficiary is in region i and beneficiary group l , and 0 otherwise

For this specification, the adjusted mean of the dependent variable Y for region i can be obtained as:

$$\bar{y}_i = \hat{\delta}_0 + \hat{\delta}_i + \hat{\beta}_1\hat{A}_1 + \hat{\beta}_2\hat{A}_2 + \dots + \hat{\beta}_7\hat{A}_7 + \hat{\beta}_8\hat{P} + \hat{\gamma}_1\hat{C}_1 + \hat{\gamma}_2\hat{C}_2 + \hat{\gamma}_3\hat{C}_3,$$

where $\hat{\beta}_i$'s and $\hat{\gamma}_i$'s are estimated model parameters, \hat{A}_i 's and \hat{C}_i 's are weighted proportions of age group i among the total MHS, and \hat{P} is the weighted MHS means of the variable P . For beneficiary group l , the adjusted regional value is:

$$\bar{y}_{il} = \hat{\delta}_{0l} + \hat{\delta}_{il} + \hat{\beta}_{1l}\hat{A}_1 + \hat{\beta}_{2l}\hat{A}_{2l} + \dots + \hat{\beta}_{7l}\hat{A}_{7l} + \hat{\beta}_{8l}\hat{P}_l + \hat{\gamma}_{1l}\hat{C}_{1l} + \hat{\gamma}_{2l}\hat{C}_{2l} + \hat{\gamma}_{3l}\hat{C}_{3l},$$

where \hat{A}_{ql} 's and \hat{C}_{ql} 's are weighted proportions of age group q in a beneficiary group.

Standard errors then can be estimated as the standard error of residuals for regions using SUDAAN. These standard errors can be used in hypothesis tests comparing adjusted values to other adjusted values or to external benchmarks. Composite values are calculated as averages of regional adjusted values for questions making up the composites, in which each question is equally weighted.

Benchmarks can also be adjusted for age and health status as are scores taken from survey responses. If the benchmark data set contains age and health status information, we fit a model of the form

$$y = \alpha + \beta_1A_1 + \beta_2A_2 + \dots + \beta_7A_7 + \beta_8P + \gamma_1C_1 + \gamma_2C_2 + \gamma_3C_3$$

where the A's and C's are age groups and P is health status. Then the adjusted benchmark is

$$\hat{y}_l = \hat{\alpha} + \hat{\beta}_1\bar{A}_{1l} + \hat{\beta}_2\bar{A}_{2l} + \dots + \hat{\beta}_7\bar{A}_{7l} + \hat{\beta}_8\bar{P}_l + \hat{\gamma}_1\bar{C}_{1l} + \hat{\gamma}_2\bar{C}_{2l} + \hat{\gamma}_3\bar{C}_{3l}$$

using the mean values of A, C and P for beneficiary group l .

The adjusted values for that beneficiary group can then be compared to a benchmark appropriate for their age distribution and health status.

In some cases, it may be desirable for a single benchmark to be presented in comparison to many beneficiary groups. We accomplish this by recentering scores for beneficiary groups. In the Beneficiary Reports, described below, the benchmark presented is the all users beneficiary group, but scores for many other beneficiary groups are also presented. Each score and benchmark is calculated for the appropriate beneficiary group. Then a recentering factor for each beneficiary group is calculated as the difference in adjusted benchmarks between a beneficiary group and the all users group. For the all users group, that recentering factor is zero. The recentering factor is added to the score for each region for that beneficiary group. Thus beneficiary groups can also be compared controlling for age and health status and can be compared to the same benchmark.

E. CALCULATING SCORES

Beneficiary Reports (see below) include four types of scores: CAHPS composites, ratings, a preventive care composite, and a total score.

1. Composites and Ratings

The preventive care composite is calculated as $P_i = \sum w_j r_{ij}$, where w is the proportion of the eligible population for whom the preventive care measure is relevant and r is the proportion of that eligible group receiving preventive care.

CAHPS composites are calculated as

$$S_i = (1/n_i) \sum (q_j/k_j),$$

where n_i is the number of questions in the composite i , q_j is the number giving a favorable response to question j in the composite i , and k_j is the number responding to that question j . The value q_j and k_j are calculated using sampling weights. CAHPS ratings are calculated as

$$S_i = q_i/k_i,$$

where q_i is the number giving a favorable response and k_i is the (weighted) number responding to rating i . All scores are adjusted for age and health status (see above).

F. DEPENDENT AND INDEPENDENT VARIABLES

Dependent, or outcome, variables represent the research questions the survey is designed to answer. For example, beneficiary satisfaction and access are dependent variables in this analysis. The research questions are listed in Chapter 1. Generally, dependent variables form the rows of the tables and the vertical axis of the charts.

Independent, or explanatory, variables do not directly represent research questions, but they may help to explain the differences in one or more of the outcome variables. They may also be correlated with one or more dependent variables. For example, a beneficiary's satisfaction with health care may be correlated with their age and/or TRICARE Prime enrollment status. Each table is designed to help determine whether a particular dependent variable is correlated with a particular independent variable. Independent variables form the columns of the tables and the horizontal axis of the charts.

In analyzing the relationship between dependent and independent variables, MPR produced charts and tables that are found in the HCSDb Annual Report. Beginning with the HCSDb in a SAS format, MPR programmers developed SAS procedures such as PROC FREQ and PROC MEANS

and SAS-callable SUDAAN procedures such as PROC DESCRIPT and PROC CROSSTAB to generate the relevant statistics (e.g., per cents, means, and standard errors). These statistical values were moved directly from SAS programs to Excel tables using a dynamic data exchange to populate the cells of the tables. Graphical displays were generated from table values wherever feasible.

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APPENDIX A

ANNOTATED QUESTIONNAIRE – FINAL

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Health Care Survey of DoD Beneficiaries Child Questionnaire



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YOUR PRIVACY

*All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the last page of this survey. This number is **ONLY** used to let us know if you returned your survey so we don't have to send you reminders.*

According to the Privacy Act of 1974 (Public Law 93-579), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None

Disclosure: Voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

SURVEY INSTRUCTIONS

Answer all the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

☒ Yes → **Go to Question 1**

☐ No

Please return the completed questionnaire in the enclosed postage-paid envelope within seven days. If you have misplaced the envelope, our address is:

Office of the Assistant Secretary of Defense
(Health Affairs)
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

SURVEY STARTS HERE

As an eligible TRICARE beneficiary, please complete this survey even if your child did not receive your health care from a military facility.

Please answer the questions for the child whose name appears on the envelope. Please do not answer for any other children.

1. Are you an adult responsible for the child listed on the envelope?

☐ Yes → **Go to Question 2**

☐ No → Please give this questionnaire to a person responsible for that child.

2. By which of the following health care plans was your child covered in the last 12 months? **MARK ALL THAT APPLY.**

Military Health Plans

☐ TRICARE Prime

☐ TRICARE Extra or Standard (CHAMPUS)

Civilian Health Plans

☐ Federal Employees Health Benefit Program (FEHBP)

☐ Medicaid

☐ A civilian HMO (such as Kaiser)

☐ Other civilian health insurance (such as Blue Cross)

☐ Uniformed Services Family Health Plan (USFHP)

☐ Not sure

☐ My child was not covered by any health plan in the last 12 months

3. Which health plan did you use for all or most of your child's health care in the last 12 months? **MARK ONLY ONE.**

Military Health Plans

- ☐ TRICARE Prime
☐ TRICARE Extra or Standard (CHAMPUS)

Civilian Health Plans

- ☐ Federal Employees Health Benefit Program (FEHBP)
☐ Medicaid
☐ A civilian HMO (such as Kaiser)
☐ Other civilian health insurance (such as Blue Cross)
☐ Uniformed Services Family Health Plan (USFHP)
☐ Not sure
☐ My child did not use any health plan in the last 12 months

For the remainder of this questionnaire, the term health plan refers to the plan you marked in Question 3.

4. In the last 12 months, how many months in a row was your child in this health plan?

- ☐ Less than 2 months
☐ 2 - 6 months
☐ 7 - 12 months
☐ Not enrolled in a health plan in the last 12 months

5. In the last 12 months, what type of facility did your child go to most often for health care? Select the facility your child used most often.

Please mark only one answer.

- ☐ A military facility – This includes:
Military clinic
Military hospital
PRIMUS clinic
NAVCARE clinic
- ☐ A civilian facility – This includes:
Civilian doctor's office
Civilian clinic
Hospital
Civilian TRICARE contractor
- ☐ Uniformed Services Family Health Plan facility (USFHP)
- ☐ My child went to none of the listed types of facilities in the last 12 months.

YOUR CHILD'S PERSONAL DOCTOR OR NURSE

The next questions ask about your child's health care. Do not include care your child got when he or she stayed overnight in a hospital. Do not include the times your child went for dental care visits.

6. A personal doctor or nurse is the health provider who knows your child best. This can be a general doctor, a specialist doctor, a nurse practitioner, or a physician assistant.

Do you have one person you think of as your child's personal doctor or nurse? If your child has more than one personal doctor or nurse, choose the person your child sees most often.

- ☐ Yes
☐ No ➔ Go to Question 9

7. Using any number from 0 to 10, where 0 is the worst personal doctor or nurse possible and 10 is the best personal doctor or nurse possible, what number would you use to rate your child's personal doctor or nurse?
- ☐ 0 Worst personal doctor or nurse possible
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6
- ☐ 7
- ☐ 8
- ☐ 9
- ☐ 10 Best personal doctor or nurse possible
- ☐ My child doesn't have a personal doctor or nurse.
8. Did you have the same personal doctor or nurse before you joined this health plan?
- ☐ Yes → Go to Question 10
- ☐ No
9. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?
- ☐ A big problem
- ☐ A small problem
- ☐ Not a problem
10. In the last 12 months, did your child's personal doctor or nurse talk with you about how your child is feeling, growing or behaving?
- ☐ Yes
- ☐ No
11. Does your child have any medical, behavioral or other health conditions that have lasted for more than 3 months?
- ☐ Yes
- ☐ No → Go to Question 14
12. Does your child's personal doctor or nurse understand how these medical, behavioral or other health conditions affect your child's day-to-day life?
- ☐ Yes
- ☐ No
13. Does your child's personal doctor or nurse understand how your child's medical, behavioral or other health conditions affect your family's day-to-day life?
- ☐ Yes
- ☐ No
14. For members of TRICARE Prime, the primary point of contact regarding your child's health is called a primary care manager or PCM. This may be the same person as your child's personal doctor or nurse. Does your child have a TRICARE primary care manager?
- ☐ Yes → Go to Question 15
- ☐ No → Go to Question 18
- ☐ I don't know → Go to Question 18
- ☐ My child is not enrolled in TRICARE Prime → Go to Question 18
15. Do you know the name of your child's TRICARE primary care manager?
- ☐ Yes
- ☐ No
- ☐ My child doesn't have a TRICARE primary care manager → Go to Question 18

16. In the last 12 months, how much of a problem was it for your child to see his or her TRICARE primary care manager?

- ☐ A big problem
- ☐ A small problem
- ☐ Not a problem
- ☐ My child doesn't have a TRICARE primary care manager. → Go to Question 18

17. Is your child's TRICARE Prime primary care manager (PCM) based in a military or civilian facility?

- ☐ A primary care manager based at a military facility
- ☐ A primary care manager based at a civilian facility
- ☐ Not sure
- ☐ Not a member of TRICARE Prime

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

18. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and others who specialize in one area of health care.

In the last 12 months, did you or a doctor think your child needed to see a specialist?

- ☐ Yes
- ☐ No → Go to Question 20

19. In the last 12 months, how much of a problem, if any, was it to see a specialist that your child needed to see?

- ☐ A big problem
- ☐ A small problem
- ☐ Not a problem
- ☐ My child didn't need to see a specialist in the last 12 months.

20. In the last 12 months, did your child see a specialist?

- ☐ Yes
- ☐ No → Go to Question 23

21. We want to know your rating of the specialist your child saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate your child's specialist?

- ☐ 0 Worst specialist possible
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6
- ☐ 7
- ☐ 8
- ☐ 9
- ☐ 10 Best specialist possible
- ☐ My child didn't see a specialist in the last 12 months

22. In the last 12 months, was the specialist your child saw most often the same doctor as your child's personal doctor?

- ☐ Yes
- ☐ No
- ☐ My child doesn't have a personal doctor or didn't need to see a specialist in the last 12 months.

YOUR CHILD'S HEALTH CARE IN THE LAST 12 MONTHS

23. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for your child?

☐ Yes
☐ No → Go to Question 25

24. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?

☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ I didn't call for help or advice for my child during regular office hours in the last 12 months.

25. In the last 12 months, did your child have an illness, injury, or condition that needed care right away in a clinic, emergency room, or doctor's office?

☐ Yes
☐ No → Go to Question 27

26. In the last 12 months, when your child needed care right away for an illness, injury, or condition, how often did your child get care as soon as you wanted?

☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child didn't need care right away for an illness, injury, or condition in the last 12 months.

27. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else your child would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your child with a doctor or other health provider for health care?

☐ Yes
☐ No → Go to Question 29

28. In the last 12 months, not counting times you needed health care right away, how often did your child get an appointment for health care as soon as you wanted?

☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child didn't need an appointment in the last 12 months.

29. In the last 12 months, how many times did your child go to an emergency room?

☐ None
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5 to 9
☐ 10 or more

30. In the last 12 months (not counting times your child went to an emergency room), how many times did you child go to a doctor's office or clinic?

☐ None → Go to Question 51
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5 to 9
☐ 10 or more

31. In the last 12 months, did you or a doctor believe your child needed any care, tests, or treatment?

- ☐ Yes
☐ No → Go to Question 33

32. In the last 12 months, how much of a problem, if any, was it to get the care, tests or treatment you or a doctor believed necessary?

- ☐ A big problem
☐ A small problem
☐ Not a problem
☐ My child had no visits in the last 12 months.

33. In the last 12 months, did you need approval from your child's health plan for any care, tests, or treatment?

- ☐ Yes
☐ No → Go to Question 35

34. In the last 12 months, how much of a problem, if any, were delays in health care while you waited for approval from your child's health plan?

- ☐ A big problem
☐ A small problem
☐ Not a problem
☐ My child had no visits in the last 12 months.

35. In the last 12 months, how often was your child taken to the exam room within 15 minutes of his or her appointment?

- ☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child had no visits in the last 12 months.

36. In the last 12 months, how often did office staff at your child's doctor's office or clinic treat you and your child with courtesy and respect?

- ☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child had no visits in the last 12 months.

37. In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?

- ☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child had no visits in the last 12 months.

38. In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?

- ☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child had no visits in the last 12 months.

39. In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?

- ☐ Never
☐ Sometimes
☐ Usually
☐ Always
☐ My child had no visits in the last 12 months.

40. In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always
 - ☐ My child had no visits in the last 12 months.
41. Is your child able to talk with doctors about his or her health care?
- ☐ Yes
 - ☐ No → Go to Question 43
 - ☐ My child had no visits in the last 12 months.
42. In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always
 - ☐ My child had no visits in the last 12 months or my child is not old enough to understand
43. In the last 12 months, how often did doctors or other health providers spend enough time with your child?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always
 - ☐ My child had no visits in the last 12 months.
44. In the last 12 months, did you have any questions or concerns about your child's health or health care?
- ☐ Yes
 - ☐ No → Go to Question 48

45. In the last 12 months, how often did your child's doctors or other health providers make it easy for you to discuss your questions or concerns?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always
46. In the last 12 months, how often did you get the specific information you needed from your child's doctors or other health providers?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always
47. In the last 12 months, how often did you have your questions answered by your child's doctors or other health providers?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always

We want to know how you, your child's doctors and other health providers make decisions about your child's health care.

48. In the last 12 months, were any decisions made about your child's health care?
- ☐ Yes
 - ☐ No → Go to Question 50
49. When decisions were made in the last 12 months, how often did your child's doctors or other health providers involve you as much as you wanted?
- ☐ Never
 - ☐ Sometimes
 - ☐ Usually
 - ☐ Always

50. Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your child's health care in the last 12 months?

- ☐ 0 Worst health care possible
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10 Best health care possible
☐ My child had no visits in the last 12 months.

51. Is your child now enrolled in any kind of school or daycare?

- ☐ Yes
☐ No → Go to Question 54

52. In the last 12 months, did you need your child's doctors or other health providers to contact a school or daycare center about your child's health or health care?

- ☐ Yes
☐ No → Go to Question 54

53. In the last 12 months, did you get the help you needed from your child's doctors or other health providers in contacting your child's school or daycare?

- ☐ Yes
☐ No

SPECIALIZED SERVICES

54. In the last 12 months, did you get or try to get any special medical equipment or devices for your child, such as a walker, wheelchair, nebulizer, feeding tubes, or oxygen equipment?

- ☐ Yes
☐ No → Go to Question 57

55. In the last 12 months, how much of a problem, if any, was it to get special medical equipment for your child?

- ☐ A big problem
☐ A small problem
☐ Not a problem → Go to Question 57

56. Did anyone from your child's health plan, doctor's office or clinic help you with this problem?

- ☐ Yes
☐ No

57. In the last 12 months, did you get or try to get special therapy for your child, such as physical, occupational, or speech therapy?

- ☐ Yes
☐ No → Go to Question 60

58. In the last 12 months, how much of a problem, if any, was it to get special therapy for your child?

- ☐ A big problem
☐ A small problem
☐ Not a problem → Go to Question 60

59. Did anyone from your child's health plan, doctor's office or clinic help you with this problem?

- ☐ Yes
☐ No

60. In the last 12 months, did you get or try to get treatment or counseling for your child for an emotional, developmental or behavioral problem?

- ☐ Yes
☐ No → Go to Question 63

61. In the last 12 months, how much of a problem, if any, was it to get this treatment or counseling for your child?

- ☐ A big problem
☐ A small problem
☐ Not a problem → Go to Question 63

62. Did anyone from your child's health plan, doctor's office or clinic help you with this problem?

- ☐ Yes
☐ No

63. In the last 12 months, did your child get care from more than one kind of health care provider or use more than one kind of health care service?

- ☐ Yes
☐ No → Go to Question 65

64. In the last 12 months, did anyone from your child's health plan, doctor's office or clinic help coordinate your child's care among these different providers or services?

- ☐ Yes
☐ No

YOUR CHILD'S HEALTH PLAN

The next questions ask about your experience with your child's health plan. By your child's health plan, we mean the plan you marked in Question 3.

65. In the last 12 months, did you look for any information about how your child's health plan works in written material or on the Internet?

- ☐ Yes
☐ No → Go to Question 67

66. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

- ☐ A big problem
☐ A small problem
☐ Not a problem
☐ I didn't look for information from my child's health plan in the last 12 months.

67. In the last 12 months, did you call your health plan's customer service to get information or help for your child?

- ☐ Yes
☐ No → Go to Question 69

68. In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?

- ☐ A big problem
☐ A small problem
☐ Not a problem
☐ I didn't call my child's health plan's customer service in the last 12 months.

69. In the last 12 months, did you have to fill out any paperwork for your child's health plan?

- ☐ Yes
☐ No → Go to Question 71

70. In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?

- ☐ A big problem
☐ A small problem
☐ Not a problem
☐ I didn't have any experience with paperwork for my child's health plan in the last 12 months.

71. Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your child's health plan?

- ☐ 0 Worst health plan possible
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10 Best health plan possible

PRESCRIPTION MEDICATIONS

72. In the last 12 months, did your child get a prescription for medicine or did you refill a prescription for your child?
- ☐ Yes
☐ No ➔ Go to Question 75
73. In the last 12 months, how much of a problem, if any, was it to get your child's prescription medicine?
- ☐ A big problem
☐ A small problem
☐ Not a problem ➔ Go to Question 75
74. Did anyone from your child's health plan, doctor's office or clinic help you with this problem?
- ☐ Yes
☐ No

ABOUT YOUR CHILD AND YOU

Information in this section will be used to study how different kinds of people view our health care system. This information will not be used to identify you or your child personally.

75. In general, how would you rate your child's overall health now?
- ☐ Excellent
☐ Very good
☐ Good
☐ Fair
☐ Poor
76. Does your child currently need or use medicine prescribed by a doctor (other than vitamins)?
- ☐ Yes
☐ No ➔ Go to Question 79
77. Is this because of any medical, behavioral or other health condition?
- ☐ Yes
☐ No ➔ Go to Question 79
78. Is this a condition that has lasted or is expected to last for at least 12 months?
- ☐ Yes
☐ No
79. Does your child need or use more medical care, mental health or educational services than is usual for most children of the same age?
- ☐ Yes
☐ No ➔ Go to Question 82
80. Is this because of any medical, behavioral or other health condition?
- ☐ Yes
☐ No ➔ Go to Question 82

81. Is this a condition that has lasted or is expected to last for at least 12 months?

- ☐ Yes
☐ No

82. Is your child limited or prevented in any way in his or her ability to do the things most children of the same age can do?

- ☐ Yes
☐ No → Go to Question 85

83. Is this because of any medical, behavioral or other health condition?

- ☐ Yes
☐ No → Go to Question 85

84. Is this a condition that has lasted or is expected to last at least 12 months?

- ☐ Yes
☐ No

85. Does your child need or get special therapy, such as physical, occupational or speech therapy?

- ☐ Yes
☐ No → Go to Question 88

86. Is this because of any medical, behavioral or other health condition?

- ☐ Yes
☐ No → Go to Question 88

87. Is this a condition that has lasted or is expected to last for at least 12 months?

- ☐ Yes
☐ No

88. Does your child have any kind of emotional, developmental or behavioral problem for which he or she needs or gets treatment or counseling?

- ☐ Yes
☐ No → Go to Question 90

89. Has this problem lasted or is it expected to last for at least 12 months?

- ☐ Yes
☐ No

90. Does your child receive any services under the Program for Persons with Disabilities (PFPWD) or Extended Care Health Option (its replacement, ECHO), Individual Case Management Program for Persons with Extraordinary Conditions (ICMP-PEC), or Custodial Care Transition Policy (CCTP)? MARK ALL THAT APPLY.

- ☐ PFPWD or ECHO → Go to Question 92
☐ ICMP-PEC → Go to Question 92
☐ CCTP → Go to Question 92
☐ None of these programs

91. Does your child have a physical, emotional, developmental or intellectual disorder that requires care from a medical specialist, therapy, education, training or counseling?

- ☐ Yes
☐ No → Go to Question 93

92. Is your family enrolled in the Exceptional Family Member Program (EFMP)?

- ☐ Yes
☐ No

93. How tall is your child without his/her shoes on?

Directions: Write your child's height in the shaded blank boxes. Check the box next to the matching number.

Example:

Height	
Feet	Inches
4	6
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input checked="" type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input checked="" type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

Height	
Feet	Inches
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

94. How much does your child weigh without his/her shoes on?

Directions: Write your child's weight in the shaded blank boxes. Check the box next to the matching number.

Example:

Weight		
Pounds		
0	6	0
<input checked="" type="checkbox"/> 0	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

95. On how many of the past 7 days did your child exercise or participate in physical activity for at least 20 minutes that made him/her sweat and breathe hard, such as basketball, soccer, running, swimming laps, fast bicycling, fast dancing, or similar aerobic activities?

- ☐ 0 days
☐ 1 day
☐ 2 days
☐ 3 days
☐ 4 days
☐ 5 days
☐ 6 days
☐ 7 days

96. On how many of the past 7 days did your child participate in physical activity for at least 30 minutes that did not make him/her sweat or breathe hard, such as fast walking, slow bicycling, skating, pushing a lawn mower, or mopping floors?

- ☐ 0 days
☐ 1 day
☐ 2 days
☐ 3 days
☐ 4 days
☐ 5 days
☐ 6 days
☐ 7 days

97. In the past 7 days, how many hours did your child watch TV, including television programs, DVDs and videos?

- ☐ My child did not watch any TV
☐ Less than 1 hour a day
☐ 1 or more hours per day but less than 2 hours per day
☐ 2 or more hours per day but less than 3 hours per day
☐ 3 or more hours per day but less than 4 hours per day
☐ 4 or more hours per day but less than 5 hours per day
☐ 5 or more hours per day

98. In the past 7 days, not including time spent watching TV, how many hours did your child spend playing video games, or using the computer?

- ☐ My child did not play video games, or use the computer
- ☐ Less than 1 hour a day
- ☐ 1 or more hours per day but less than 2 hours per day
- ☐ 2 or more hours per day but less than 3 hours per day
- ☐ 3 or more hours per day but less than 4 hours per day
- ☐ 4 or more hours per day but less than 5 hours per day
- ☐ 5 or more hours per day

99. In the past 7 days, how many times did your child eat fast food? Fast food is the kind of food served at the following or similar types of restaurants: McDonald's, Burger King, Wendy's, Dairy Queen, Hardee's, Jack in the Box, KFC, Popeye's, Taco Bell.

- ☐ Never
- ☐ 1 or 2 times
- ☐ 3 or 4 times
- ☐ 5 or 6 times
- ☐ 7 or more times

100. When riding a car during the past 12 months, how often did your child wear a seatbelt or ride in a child safety seat?

- ☐ Never
- ☐ Rarely
- ☐ Sometimes
- ☐ Most of the time
- ☐ Always
- ☐ My child did not ride in a car in the last 12 months

101. When riding a bicycle during the past 12 months, how often did your child wear a helmet?

- ☐ Never
- ☐ Rarely
- ☐ Sometimes
- ☐ Most of the time
- ☐ Always
- ☐ My child did not ride a bicycle in the last 12 months

102. When rollerblading or riding a skateboard during the past 12 months, how often did your child wear a helmet?

- ☐ Never
- ☐ Rarely
- ☐ Sometimes
- ☐ Most of the time
- ☐ Always
- ☐ My child did not rollerblade or ride a skateboard in the last 12 months

103. How old is your child?

Directions: Write your child's age in the shaded blank boxes. Check the box next to the matching number.

Example:

Age	
1	0
<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2
	<input type="checkbox"/> 3
	<input type="checkbox"/> 4
	<input type="checkbox"/> 5
	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9

Age	
<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2
	<input type="checkbox"/> 3
	<input type="checkbox"/> 4
	<input type="checkbox"/> 5
	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9

104. Is your child male or female?

- ☐ Male
- ☐ Female

105. Is your child of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

- ☐ No, not Spanish, Hispanic or Latino
- ☐ Yes, Mexican, Mexican American, Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, other Spanish, Hispanic, or Latino

106. What is your child's race? (Mark ONE OR MORE races to indicate what you consider your child to be.)

- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native
- ☐ Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
- ☐ Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

107. What is your age now?

- ☐ Under 18
- ☐ 18 to 24
- ☐ 25 to 34
- ☐ 35 to 44
- ☐ 45 to 54
- ☐ 55 to 64
- ☐ 65 to 74
- ☐ 75 or older

108. Are you male or female?

- ☐ Male
- ☐ Female

109. What is the highest grade or level of school that you have completed?

- ☐ 8th grade or less
- ☐ Some high school, but did not graduate
- ☐ High school graduate or GED
- ☐ Some college or 2-year degree
- ☐ 4-year college graduate
- ☐ More than 4-year college degree

110. How are you related to the policyholder?

- ☐ I am the policyholder
 - ☐ Spouse or partner of policyholder
 - ☐ Child of policyholder
 - ☐ Other family member
 - ☐ Friend
 - ☐ Someone else (please print):
-

111. How are you related to the child?

- ☐ Mother or father
- ☐ Grandparent
- ☐ Aunt or uncle
- ☐ Older sibling
- ☐ Other relative
- ☐ Legal guardian

If you have any suggestions or comments that you would like to add, please neatly print your comments in question 112 on the lines provided. If you would like someone from DoD to contact you, please provide us with your name and address.

112. SUGGESTIONS AND COMMENTS:

THANK YOU FOR TAKING THE TIME TO COMPLETE THE SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense
(Health Affairs)
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

Front cover picture credits:

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APPENDIX B

CHILD SURVEY FIELDING MATERIALS

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Sample Notification Letter

July 22, 2005

11000000 E597-13
TO THE PARENT OR GUARDIAN OF
JONATHON WILKENSONS I
1245 Q ST STE 400
LINCOLN, NE 68508-1430

Dear Parent/Guardian:

We need your help! The Department of Defense is very interested in what you think about your child's health care. In a few weeks, you will get the 2005 Health Care Survey of DoD Beneficiaries Child Questionnaire that asks about your child's health care. By answering the survey questions, you will provide important information to help us improve the healthcare services for our entire military community. Your feedback will make a difference.

You are among only a few military beneficiaries who are being sent this survey, I hope you will take the time to fill it out and send it back in the enclosed envelope. Your responses are important to us even if your child does not receive his or her health care through the military health care system. Of course, what you have to say is private.

Although we made every attempt to ensure that our information is correct, we apologize if you received this mailing in error. If you have received this in error, if the address above is incorrect, or if you have questions about the survey, please contact us by calling toll-free to the Synovate Survey Processing Department at 1-877-236-2390 (within the U.S.) anytime, or email us at dod-child@synovate.net. If you contact us you will be asked to provide your name, address, and the 8-digit number above your address on this letter. You also can send this letter via facsimile to 1-800-409-7681 (within the U.S.).

Thank you for your service to your country, and thank you in advance for your help!

Sincerely,

Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample First Survey Cover Letter

August 18, 2005

12345678
TO THE PARENT OF GUARDIAN OF
DAVID BRYANT
222 S. RIVERSIDE DRIVE
SUITE 350
CHICAGO, IL 60606-5809

Dear Parent/Guardian:

We need your help! The Department of Defense (DoD) needs your cooperation in completing this survey about your child's health care. You are among only a few who were randomly selected to receive this survey. Your responses will provide important information that will help us improve the health care services for the entire DoD health care community. Please take advantage of this opportunity.

The enclosed survey asks about your child's experiences in receiving health care services for the past 12 months. This survey is also available on the Web. Access the web version by using this address: www.synovate.net/dodchild and the password **999999** is assigned for your exclusive use. Return the completed survey by mail in the enclosed postage-paid envelope or via the web site to avoid a reminder and additional survey. As an eligible military beneficiary, your child's benefits may include both civilian care and care received within our military facilities. **Even if your child did not receive any health care from a military facility, we still ask that you complete the survey.**

Your feedback is important to help us improve our services and to provide you with the best possible health care. Taking part in this survey is voluntary. Your contact information and how you respond is kept private. Although we made every attempt to ensure that our information is correct, we apologize if you received this mailing in error. If you have received this in error, if the address above is incorrect, or if you have questions about the survey, please contact us by using the pre-addressed envelope provided or by calling the Synovate Survey Processing Center at 1-877-236-2390 (within the U.S.) anytime, since this number accepts calls 24 hours a day, or email us at dod-child@synovate.net. If you call you will be asked to provide your name, address, and the 8-digit number above your address on this cover letter. You also can send this letter via facsimile to 1-800-409-7681 (within the U.S.). All calls to these numbers are toll free.

Thank you for your service to our country. Your experience as a military beneficiary needs to be heard. Thank you for your help.

Sincerely,

Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample Reminder/Thank You Postcard

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
HEALTH AFFAIRS/TRICARE MANAGEMENT ACTIVITY
SURVEY PROCESSING CENTER
C/O SYNOVATE
PO BOX 5030
CHICAGO, IL 60680

87654321
TO THE PARENT OR GUARDIAN OF
DAVE BRYANT
222 S. RIVERSIDE DR.
APARTMENT 5
WHEATON, IL 60187

WE NEED YOUR HELP!

HELLO!

E597-13

Recently, we mailed you the *Health Care Survey of DoD Beneficiaries*, a DoD-sponsored survey of all members. You are among only a few randomly selected to receive this survey and we have not heard from you yet! As an eligible military beneficiary, your benefits include both civilian care and care you receive within our military facilities. **Even if you did not receive your health care from a military facility, please complete the survey.**

Taking part in this survey is voluntary and the information you provide us is kept private. The end of the survey period is November 1, 2005 so return your copy today!

If you did not receive the survey or if you need another copy, please call toll free 1-877-236-2390 (within the U.S.) or email us at **dod-child@synovate.net**.

If you have already sent in your survey, please ignore this message.

THANK YOU!

Michael R. Peterson, DVM, MPH, DrPH
Director, Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample Second Survey Cover Letter

September 26, 2005

12345670
TO THE PARENT OR GUARDIAN OF
DAVID BRYANT
222 S. RIVERSIDE DRIVE
APARTMENT 4C
WHEATON, IL 60999-3016

Dear Parent/Guardian:

We need your help! We recently sent you a survey asking your opinions about the Department of Defense (DoD) health care system in regards to your child and have not heard from you. By completing the enclosed ***Health Care Survey of DoD Beneficiaries-Child Questionnaire***, you will provide important information that will help us improve the health care services for the entire DoD health care community. You may also complete the questionnaire on-line by connecting to www.synovate.net/dodchild. Your personal password is **999999**.

Though your participation is completely voluntary, your views are important to us and your opinions count since your child was among only a few beneficiaries selected to participate. Please be assured that all your contact information and what you have to say is private. Since DoD health care benefits include care received in both military and civilian facilities, **please complete the survey even if your child did not receive any health care services from a military facility.**

If the address above is incorrect, please telephone the Synovate Survey Processing Center at 1-877-236-2390 (within the U.S.), available 24 hours a day, or email us at dod-child@synovate.net. If you contact us, please provide your name, address, and the 8-digit number above your address on this cover letter. You also can send this letter via facsimile with your correct address to 1-800-409-7681 (within the U.S.). All calls to these numbers are toll free.

Thank you for your service to your country. Your experience as a military beneficiary needs to be heard. Please take the time to respond.

Sincerely,

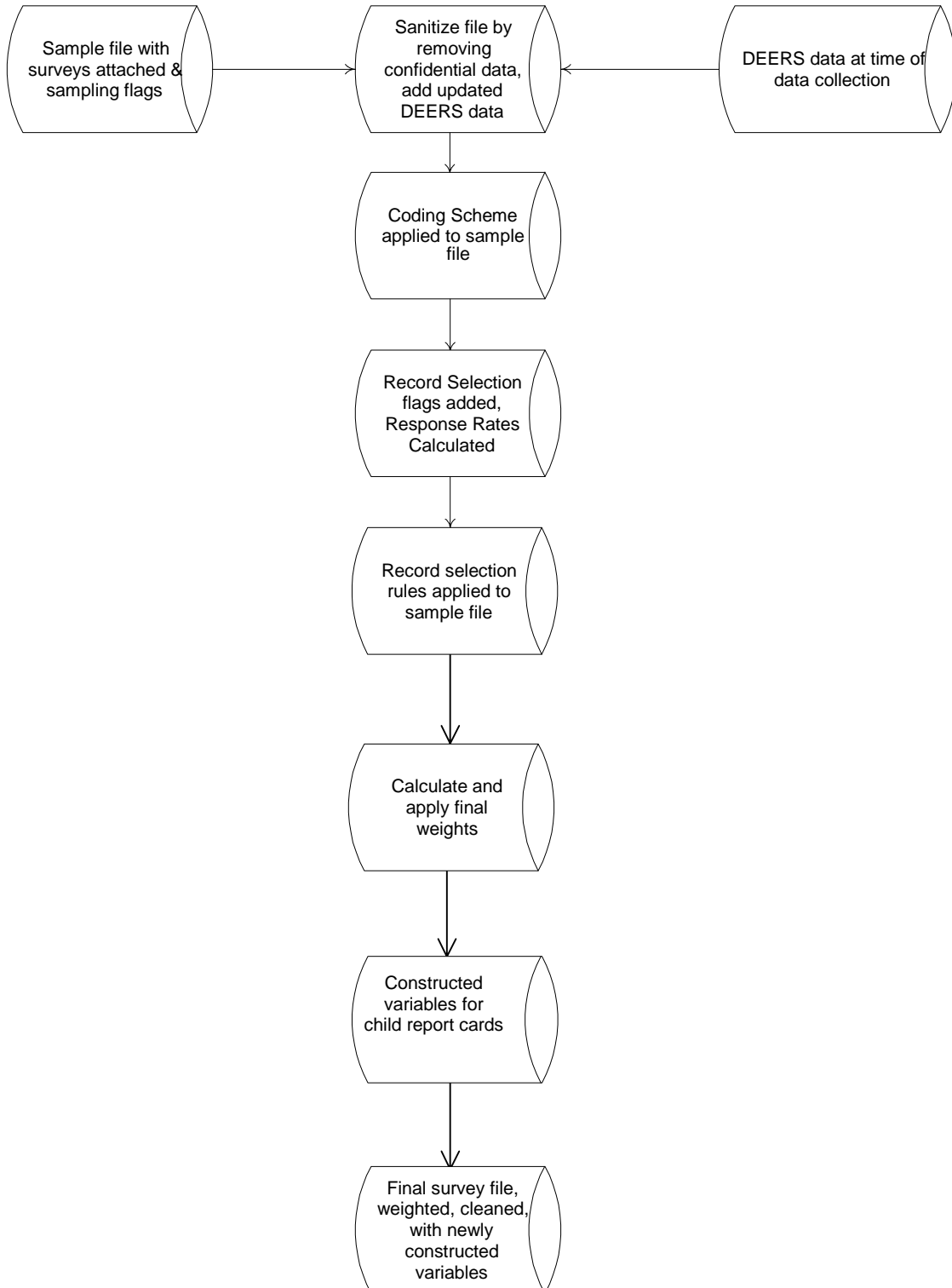
Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

APPENDIX C

DATA PROCESSING ARCHITECTURE

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DATA PROCESSING ARCHITECTURE



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APPENDIX D

CODING SCHEME AND CODING TABLES

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2005 HEALTH CARE SURVEY OF DOD BENEFICIARIES
CHILD QUESTIONNAIRE
CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

<hr/>		
SAS	ASCII/EBCDIC	
Numeric	Numeric	Description
.	-9	No response
.O	-7	Out of range error
.N	-6	Not Applicable or valid skip
.D	-5	Scalable response of “Don’t know” or “not sure”
.I	-4	Incomplete grid error
.C	-1	Question should not have been answered. It should have been skipped
<hr/>		

Missing values ‘.’ and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 1:
C05006, C05007 – C05008**

N1	C05006 is:	C05007 is:	C05008 is :	C05006 is coded as:	C05007 is coded as:	C05008 is coded as:	*
1	1: yes	At least one is “marked” or “all are blank”		Stands as original Value	., missing if –6; Stand as original Value	., missing if –6; Stand as original Value	
2	1: yes or missing response	“Blank or NA”		2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no or missing response	0-10	Any value	1: yes	Stand as original value	Stand as original value	B
4	2: no	-6: Didn’t use any health plan, Missing	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	2: no	“Blank or NA” or “all are blank”		Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	-6: Didn’t use any health plan, Missing	Any value	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
7	Missing response	“All are blank”		Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 1:
All responses to questions C05007 through C05008 are missing.

Definition of “blank or NA” in Coding Table for Note 1:
Responses to C05007 through C05008 are a combination of missing and not applicable (-6).

Definition of “marked” in Coding Table for Note 1:
Any pattern of marks outside the definitions “all are blank,” and “blank or NA.”

**Coding Table for Note 2:
C05008, C05009**

N2	C05008 is:	C05009 is:	C05008 is coded as:	C05009 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any Value	Stands as original value	Stands as original value	
2	1:yes or missing response	1- 3	2: no	Stands as original value	B
3	1: yes	Missing	Stands as original value	.N, valid skip if missing	F
4	2: no	1-3 or missing response	Stands as original value	Stands as original value	
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 3:
C05011, C05012, C05013**

N3	C05011 is:	C05012, C05013 Are:	C05011 is coded as:	C05012, C05013 Are coded as:	*
1	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	2: no or missing response	At least one is “marked”	1: yes	Stand as original value	B
3	2: no	“All are blank”	Stands as original value	.N, valid skip if missing	F
4	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 3:
C05012 and C05013 are both missing.

Definition of “marked” in Coding Table for Note 3:
Any pattern of marks outside the definitions “all are blank”.

**Coding Table for Note 4:
C05014 – C05017**

N4	C05014 is:	C05015 – C05016 are:	C05017 is:	C05014 is coded as:	C05015 – C05016 are coded as:	C05017 is coded as:	*
1	1: yes	“All are blank”		Stands as original value	Stand as original value	Stand as original value	
2	1: yes or missing response	“Blank or NA”		2: no	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: yes or missing response	-6: Child doesn’t have a TRICARE PCM	Any Value	2: no	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	1: yes or missing response	At least one is “marked”		1: yes	., missing is –6; Stand as original value	., missing is –6; Stand as original value	B
5	2: no, -5: I don’t know, or -6: not enrolled in Tricare Prime	“All are blank”		Stands as original value	.N, valid skip	.N, valid skip	F
6	2: no, -5: I don’t know, or -6: not enrolled in Tricare Prime	At least one is “marked”		1: yes	Stand as original value	Stand as original value	B
7	2: no, -5: I don’t know, -6: not enrolled in Tricare Prime	“Blank or NA”		2: no	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
8	Missing response	“All are blank”		Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 4:
All responses to questions C05015 through C05017 are missing.

Definition of “blank or NA” in Coding Table for Note 4:
Responses to questions C05015 and C05017 are a combination of missing and not applicable (-6).

Definition of “marked” in Coding Table for Note 4:
Any pattern of marks outside of “all are blank” and “blank or NA.”

**Coding Table for Note 5:
C05018, C05019**

N5	C05018 is:	C05019 is:	C05018 is coded as:	C05019 is coded as:	*
1	1: yes	1-3 or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: child didn't see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1- 3	1: yes	Stands as original value	B
4	2: no	Missing, or -6: child didn't see a specialist	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 6:
C05020, C05021-C05022**

N6	C05020 is:	C05021, C05022 are:	C05020 is coded as:	C05021, C05022 are coded as:	*
1	1: yes	"All are blank" or at least one is "marked"	Stands as original value	., missing if -6; Stand as original value otherwise	F
2	1: yes or missing response	"Blank or NA"	2:no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no or missing response	At least one is "marked"	1: yes	., missing if -6; Stand as original value otherwise	B F
4	2: no	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 6:
C05021 and C05022 are both missing.

Definition of "blank or NA" in Coding Table for Note 6:
C05021 and C05022 are either not applicable (-6), or a combination of not applicable (-6) and missing.

Definition of "marked" in Coding Table for Note 6:
Any pattern of marks outside the definitions "all are blank" and "blank or NA."

**Coding Table for Note 7:
C05023, C05024**

N7	C05023 is:	C05024 is :	C05023 is coded as:	C05024 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no calls	2: no	.C, question should be skipped	B F
3	2: no, or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no calls, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 8:
C05025, C05026**

N8	C05025 is:	C05026 is :	C05025 is coded as:	C05026 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no urgent care	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no urgent care, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 9:
C05027, C05028**

N9	C05027 is:	C05028 is :	C05027 is coded as:	C05028 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no appointments	2: no	.C, question should be skipped	B F
3	2: no, missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no appointments, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10:
C05030, C05031 - C05050**

N10	C05030 is:	C05031 – C05050 are:	C05030 is coded as:	C05031 - C05050 are coded as:	*
1	1: none	“Blank or NA” or “all are blank” or At least one is “marked”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	Missing response	At least one is “marked”	Stands as original value	missing, if -6; Stands as original value, otherwise	F
3	>=2	At least one is “marked” or “all are blank”	Stands as original value	missing, if -6; Stands as original value, otherwise	F
4	>=2 or missing response	“Blank or NA”	1: none	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10:
All responses to questions C05031 through C05050 are missing.

Definition of “blank or NA” in Coding Table for Note 10:
C05031 – C05050 are a combination of not applicable (-6) and missing.

Definition of “marked” in Coding Table for Note 10:
Any pattern of marks outside the definitions “all are blank” and “blank or NA.”

**Coding Table for Note 11:
C05031, C05032**

N11	C05031 is:	C05032 is :	C05031 is coded as:	C05032 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	1-3: problem or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	-6: no visits	2: no	.C, question should be skipped	B F
4	2: no, or missing response	1-3: problem	1: yes	Stands as original value	B
5	2: no	-6: no visits, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 12:
C05033, C05034**

N12	C05033 is:	C05034 is :	C05033 is coded as:	C05034 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	1-3: problem or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	-6: no visits	2: no	.C, question should be skipped	B F
4	2: no or missing response	1-3: problem	1: yes	Stands as original value	B
5	2: no	-6: no visits, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 13:
C05041, C05042**

N13	C05041 is:	C05042 is:	C05041 is coded as:	C05042 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	Any value	Stands as original value	Stands as original value	
2	1: yes	1-4, or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	-6: no visits	2: no	.C, question should be skipped	B F
4	2: no or missing response	1-4	1: yes	Stands as original value	B
5	2: no	Missing or -6: no visits	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 14:
C05044, C05045 - C05047**

N14	C05044 is:	C05045 – C05047 are:	C05044 is coded as:	C05045 - C05047 are coded as:	*
1	.N, valid skip or .C, question should not have been answered	.N, valid skip or .C, question should not have been answered	Stands as original value	Stands as original value	
2	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
3	2: no or missing response	At least one is “marked”	1: yes	Stand as original value	B
4	2: no	“All are blank”	Stands as original value	.N, valid skip if missing	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 14:
All responses to questions C05045 through C05047 are missing.

Definition of “marked” in Coding Table for Note 14:
Any pattern of marks outside the definition “all are blank”.

**Coding Table for Note 15:
C05048, C05049**

N15	C05048 is:	C05049 are:	C05048 is coded as:	C05049 are coded as:	*
1	.N, valid skip or .C, question should not have been answered	.N, valid skip or .C, question should not have been answered	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	Stand as original value	
3	2: no or missing response	1-4	1: yes	Stand as original value	B
4	2: no	Missing response	Stands as original value	.N, valid skip if missing	F
5	Missing response	Missing response	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16:
C05051, C05052 & C05053**

N16	C05051 is:	C05052 is:	C05053 is:	C05051 is coded as:	C05052 is coded as:	C05053 is coded as:	*
1	1: Yes	1: Yes	1-2, Missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	1-2, or Missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	missing response	missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	1-2 or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	1: Yes	Any Value	1: Yes	Stands as original value	Stands as original value	B
7	Missing response	2: No	Any Value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	Missing response	Marked	1: Yes	1: Yes	Stands as original value	B
9	Missing response	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 17:
C05054, C05055 & C05056**

N17	C05054 is:	C05055 is:	C05056 is:	C05054 is coded as:	C05055 is coded as:	C05056 is coded as:	*
1	1: Yes	1-2: problem or missing	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	3: No problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No, Missing response	1-2: problem	1-2 or missing response	1: Yes	Stands as original value	Stands as original value	B
4	2: No	3: no problem, Missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	3: no problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 18:
C05057, C05058 & C05059**

N18	C05057 is:	C05058 Is:	C05059 is:	C05057 is coded as:	C05058 is coded as:	C05059 is coded as:	*
1	1: Yes	1-2: problem or missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	3: Not a problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No or missing response	1-2: problem	1-2 or missing response	1: Yes	Stands as original value	Stands as original value	B
4	2: No	3: no problem or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	3: no problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 19:
C05060, C05061 & C05062**

N19	C05060 is:	C05061 Is:	C05062 is:	C05060 is coded as:	C05061 is coded as:	C05062 is coded as:	*
1	1: Yes	1-2: problem, or missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	3: Not a problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No or missing response	1-2: problem	1-2 or missing response	1: Yes	Stands as original value	Stands as original value	B
4	2: No	3: no problem, missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	3: no problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 20:
C05063, C05064**

N20	C05063 is:	C05064 is :	C05063 is coded as:	C05064 is coded as:	*
1	1: yes	1-2 or missing response	Stands as original value	Stands as original value	
2	2: no or missing response	1-2	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

*Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 21:
C05065, C05066**

N21	C05065 is:	C05066 is:	C05065 is coded as:	C05066 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F)

**Coding Table for Note 22:
C05067, C05068**

N22	C05067 is:	C05068 is :	C05067 is coded as:	C05068 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 23:
C05069, C05070**

N23	C05069 is:	C05070 is :	C05069 is coded as:	C05070 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 24:
C05072, C05073 & C05074**

N24	C05072 is:	C05073 is:	C05074 is:	C05072 is coded as:	C05073 is coded as:	C05074 is coded as:	*
1	1: Yes	1-2: problem, or missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	3: Not a problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No, Missing response	1-2: problem	1-2 or missing response	1: Yes	Stands as original value	Stands as original value	B
4	2: No	3: no problem or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	3: no problem	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	1-2, or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 25:
C05076, C05077 & C05078**

N25	C05076 is:	C05077 is:	C05078 is:	C05076 is coded as:	C05077 is coded as:	C05078 is coded as:	*
1	1: Yes	1: Yes	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	missing response	missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	1-2 or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes or missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 26:
C05079, C05080 & C05081**

N26	C05079 is:	C05080 is:	C05081 is:	C05079 is coded as:	C05080 is coded as:	C05081 is coded as:	*
1	1: Yes	1: Yes	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	1-2 or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes or missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 27:
C05082, C05083 & C05084**

N27	C05082 is:	C05083 is:	C05084 is:	C05082 is coded as:	C05083 is coded as:	C05084 is coded as:	*
1	1: Yes	1: Yes	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	1-2 or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes, missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 28:
C05085, C05086 & C05087**

N28	C05085 is:	C05086 is:	C05087 is:	C05085 is coded as:	C05086 is coded as:	C05087 is coded as:	*
1	1: Yes	1: Yes	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	1-2 or missing response	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	2: No	1-2 or missing response	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes, missing response	1-2 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 29:
C05088, C05089**

N29	C05088 is:	C05089 is :	C05088 is coded as:	C05089 is coded as:	*
1	1: yes	1-2 or missing response	Stands as original value	Stands as original value	
2	2: no	Missing response	Stands as original value	.N, valid skip	F
3	2: no or missing response	1: yes, 2: no	1: yes	Stands as original value	B
4	Missing response	Missing response	Stands as original value	Stands as original value	

*Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 30:
C05090A-C05090D, C05091**

N30	C05090A- C05090C are:	C05090D is:	C05091 is :	C05090A- C05090C are coded as:	C05090D is coded as:	C05091 is coded as:	*
1	"All are blank"	1: marked	Any value	Stands as original value	Stands as original value	Stands as original value	
2	At least one is "marked"	Any Value	Any value	Stands as original value	2: Unmarked	.N, valid skip if missing; .C, question should be skipped if marked	F
3	"All are blank"	Unmarked	Any value	Stands as original value	Stands as original value	Stands as original value	

*Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 30:

All responses to questions C05090A through C05090C are missing or unmarked.

Definition of "marked" in Coding Table for Note 30:

Any pattern of marks outside the definitions "all are blank"

**Coding Table for Note 31:
C05091, C05092**

N31	C05091 is:	C05092 is :	C05091 is coded as:	C05092 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	Any value	Stands as original value	Stands as original value	
2	1: yes	1-2 or missing response	Stands as original value	Stands as original value	
3	2: no	1-2 or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	Any value	Stands as original value	Stands as original value	

*Indication of backward coding (B) or forward coding (F).

APPENDIX E

TECHNICAL DESCRIPTION OF THE 2005 TRICARE CHILD BENEFICIARY REPORTS

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The findings in these reports are based on parents' responses to the 2005 Child Health Care Survey of DoD Beneficiaries. The beneficiary reports will present 11 scores for each region in the MHS and for the MHS overall. Scores will enable users to compare providers to national benchmarks in these areas: getting needed care, getting care quickly, courteous and helpful office staff, how well doctors communicate, customer service, rating of the health plan, health care, personal doctor, and specialist. These scores are made up of three different types, described in TABLE E.1: CAHPS composites and satisfaction ratings and TMA composites.

TABLE E.1

CONTENT OF THE 2005 TRICARE CHILD BENEFICIARY REPORTS

CAHPS COMPOSITES
The CAHPS composites group together survey responses to a set of related HCSDb questions taken from CAHPS. Scores expressed as CAHPS composites profile TRICARE beneficiaries' satisfaction with their ability to get needed care, the speed with which they receive care, interactions with their doctor, their experience with doctors' offices, and their experience with customer service representatives. Scores will be presented in relation to national benchmarks.
SATISFACTION RATINGS
Scores expressed as ratings reflect beneficiaries' self-rated satisfaction with their health plan, health care, personal providers, and specialty care. The scores, adjusted for patient age and health status, will be presented relative to national benchmarks.
TMA COMPOSITES
Though they are based on CAHPS questions, two composites were developed especially for this report and are not benchmarked. They concern matters especially relevant to pediatric care, involving parents in decisions about a child's care and care for children with special needs.

TABLE E.2 lists the questions and response choices for the CAHPS composites in the beneficiary reports. Question numbers refer to the CAHPS 3.0 Child Questionnaire (Commercial). Response choices for each question within a composite are collapsed into three-item scales so that all composites have the same range. Along with the composites, the proportion at the top of the scale for each question will be presented and compared to national civilian benchmarks.

Four scores are based on respondents' ratings of health care and health care providers: health plan, health care, PCM, and specialist. These ratings are measures of overall beneficiary satisfaction. Questions about these aspects of care ask beneficiaries to rate their health plan, health care, and physicians on a scale of 0 to 10, with 0 being the worst and 10 being the best. The rating score is the proportion rating that aspect of care at 8 or above.

For the purpose of presentation, all proportions are multiplied by 100 so that the score can be presented on a scale of 0 to 100. Trends are calculated as the difference between the scores for 2004 and 2005.

TABLE E.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

CHILD QUESTIONNAIRE CAHPS 3.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q7	Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?	A big problem A small problem Not a problem
Q13	In the last 12 months, how much of a problem, if any, was it to see a specialist that your child needed to see?	A big problem A small problem Not a problem
Q26	In the last 12 months, how much of a problem, if any, was it to get the care, tests, or treatment you or your doctor believed necessary?	A big problem A small problem Not a problem
Q28	In the last 12 months, how much of a problem, if any, were delays in health care while you waited for approval from your child's health plan?	A big problem A small problem Not a problem
GETTING CARE QUICKLY		
Q18	In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?	Never Sometimes Usually Always
Q22	In the last 12 months, not counting times you needed health care right away, how often did your child get an appointment for healthcare as soon as you wanted?	Never Sometimes Usually Always
Q20	In the last 12 months, when your child needed care right away for an illness, injury, or condition, how often did your child get care as soon as you wanted?	Never Sometimes Usually Always
Q29	In the last 12 months, how often was your child taken to the exam room within 15 minutes of his or her appointment?	Never Sometimes Usually Always

CHILD QUESTIONNAIRE CAHPS 3.0	HOW WELL DOCTORS COMMUNICATE	RESPONSE CHOICE
Q32	In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?	Never Sometimes Usually Always
Q33	In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?	Never Sometimes Usually Always
Q34	In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?	Never Sometimes Usually Always
Q36	In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?	Never Sometimes Usually Always
Q37	In the last 12 months, how often did doctors or other health providers spend enough time with your child?	Never Sometimes Usually Always
COURTEOUS AND HELPFUL OFFICE STAFF		
Q30	In the last 12 months, how often did office staff at your child's doctor's office or clinic treat you and your child with courtesy and respect?	Never Sometimes Usually Always
Q31	In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?	Never Sometimes Usually Always
CUSTOMER SERVICE		
Q63	In the last 12 months, did you look for any information about how your health plan works in written material or on the internet? In the last 12 months, how much of a problem, if any, was it to find or understand this information?	A big problem A small problem Not a problem
Q65	In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?	A big problem A small problem Not a problem

Q67 In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan? A big problem
A small problem
Not a problem

Involve Parents		
-----------------	--	--

Q39 In the last 12 months, how often did your child's doctors or health providers make it wasy for you to discuss your questions or concerns? Never
Sometimes
Usually
Always

Q40 In the last 12 months, how often did you get the specific information you needed from your child's doctors or other health providers? Never
Sometimes
Usually
Always

Q41 In the last 12 months, how often did you have your questions answered by your child's doctors or other health providers? Never
Sometimes
Usually
Always

Q46 When decisions were made in the last 12 months, how often did you child's doctors or health providers involve you as much as you wanted? Never
Sometimes
Usually
Always

Special Needs		
---------------	--	--

Q52 In the last 12 months, how much of a problem, if any, was it to get special medical equipment for your child? A big problem
A small problem
Not a problem

Q55 In the last 12 months, how much of a problem, if any, was it to get special therapy for your child? A big problem
A small problem
Not a problem

Q58 In the last 12 months, how much of a problem, if any, was it to get treatment or counseling for your child? A big problem
A small problem
Not a problem

CHILD SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	RATING OF ALL HEALTH CARE	RESPONSE CHOICE
---	---------------------------	-----------------

Q47 Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your child's health care in the last 12 months?

0 Worst health care possible
1
2
3
4
5
6
7
8
9
10 Best health care possible

	RATING OF HEALTH PLAN	
Q68	Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your child's health plan?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible

CHILD QUESTIONNAIRE CAHPS 3.0	RATING OF PERSONAL DOCTOR	RESPONSE CHOICE
Q5	Using any number from 0 to 10, where 0 is the worst personal doctor or nurse possible and 10 is the best personal doctor or nurse possible, what number would you use to rate your child's personal doctor or nurse?	0 Worst personal doctor or nurse possible 1 2 3 4 5 6 7 8 9 10 Best personal doctor or nurse possible

	RATING OF SPECIALIST	
Q15	Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate your child's specialist?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

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APPENDIX F

SAS CODE FOR FILE DEVELOPMENT

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F.1 WEIGHTING\MERGNRCC.SAS - COMBINE ITEM RESPONSE DATA FROM SYNOVATE WITH THE MPR SAMPLING AND DEERS VARIABLES.

```

*****
*
* PROGRAM:   MERGNRCC.SAS
* TASK:      QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE:   COMBINE ITEM RESPONSE DATA FROM NRC WITH THE MPR SAMPLING AND
*            DEERS VARIABLES.  ALSO, CONSTRUCT XREGION AND CONUS.
* WRITTEN:   01/31/2001 BY KEITH RATHBUN
*
* MODIFIED:  1) 08/31/2001 BY KEITH RATHBUN, Adapted from MERGENRC.SAS to
*            accomodate the child survey for 2000.
*            2) 09/13/2002 BY KEITH RATHBUN, Small changes to accomodate the
*            the child survey for 2002.  Removed ENBGSMPL creation include
*            since it is now created at time of sampling.  Removed TSPSITE
*            since it is no longer available in the DEERS system.
*            3) 10/20/2004 BY KEITH RATHBUN: Recode unknown values of
*            MRTLSTAT into one group.
*
* INPUTS:    1) QnyyC.SD2 - 2003 Child DOD Health Survey Data from NRC
*            where n = Quarter Number
*                yy = Survey Administration Year
*            2) SAMPLC01.SD2 - MPR Sampling variables
*            3) SAMPLC02.SD2 - DEERS and MPR Sampling variables
*            4) FRAMEC.SD2 - More MPR Sampling variables
*
* OUTPUTS:   1) MERGNRCC.SD2 - 2003 Child DOD Health Survey Data
*            (Combined NRC, MPR, and DEERS variables)
*
*****;
LIBNAME INv6 v612 "..\..\DATA\cfinal";
LIBNAME INv8 v8  "..\..\DATA\cfinal";
LIBNAME OUT v612 "..\..\DATA\cfinal";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER ERRORS=1;

*****
* Define fielding start date so AGE can be recalculated based on DOB.
*****;
%LET FIELDDATE = 08232005; * mmddyyyy;
%LET FIELDLBL = August 23rd 2005;
%LET NUMYRS = 5; *Add 1 to number of years processed each year;

*****
* SORT the RETURNS and the original sample (BWT).
*****;
PROC SORT DATA=INv8.dod05q3child OUT=NRCFILE; BY MPRID; RUN;
DATA NRCFILE;
    LENGTH MPRID $8;
    SET NRCFILE;
RUN;

PROC SORT DATA=INv6.SAMPLC01 OUT=SAMPLC01; BY MPRID; RUN;

*****
* Attach the original sampling variables to the combined file.
*****;
DATA MERGNRCC;
    MERGE SAMPLC01(IN=IN1) NRCFILE(IN=IN2);
    BY MPRID;
    FLAG_FIN = COMPRESS(FLAG_FIN); *Trim off the blanks;
    *****
    * DROP variables that are not needed.
    *****;
    DROP SEL_PROB AGE_N FAMCODE;
    *****
    * Assign indicator of CONUS based on TNEXSAMPL.  CONUS stands for
    * Contential United States it but includes both Alaska and Hawaii.
    *****;
    IF TNEXSAMPL IN (1,2,3) THEN CONUS=1; **conus;
    ELSE IF TNEXSAMPL IN (4) THEN CONUS=0; **oconus;

```

```

LENGTH CONUS 3. ;

LABEL CONUS = 'CONUS - CONUS/OCONUS Indicator'
      BWT = 'BWT - Basic Sampling Weight'
      FLAG_FIN = 'Final Disposition'
      ;
IF IN2;
IF IN2 AND NOT IN1 THEN
  PUT "ERROR: MPRID Not Found in both the NRC and MPR files, MPRID = " MPRID;
RUN;

PROC SORT DATA=INV6.FRAMEC OUT=FRAMEC
  (KEEP=MPRID SVCSMPL AGESMPL BGCSMPL
    /*JMA,Jan 2006*/
    ENRID ACV PNBRTHTD MRTLSTAT PNLCTCD PAYPLNCD
    RACEETHN DCATCH DMEDELG DBENCAT DSPONSVC
    PATCAT
    /*JMA,Jan 2006*/
  );
  BY MPRID;
RUN;

DATA MERGNRCC;
  MERGE MERGNRCC(IN=IN1) FRAMEC(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

*****
* Attach the DEERS variables to the combined file.
*****
DATA OUT.MERGNRCC;
  MERGE MERGNRCC (IN=IN1
    RENAME=COMMENT_FLAG=CMNTFLAG)
    INV6.SAMPLC02(IN=IN2
    KEEP=MPRID ENBGSMPL
    DAGEQY LEGDDSCD MBRRELCD
    MEDTYPE PNTYPCD E1-E&NUMYRS

    /* JMA,Jan 2006**
      These variables will be picked from the frame
      ENRID ACV PNBRTHTD MRTLSTAT PNLCTCD PAYPLNCD
      RACEETHN DCATCH DMEDELG DBENCAT DSPONSVC
      PATCAT
      JMA,Jan 2006** */
    );
  BY MPRID;
  DROP PAYPLNCD PNTYPCD PNBRTHTD;

  /*****JMA 2005
    Updating PCM, ENBGSMPL, and enlsmpl for child 2005.
    PCM update is per Eric Schone. ENBGSMPL will then be
    updated using the new PCM value. ENBGSMPL code was
    copied from frame01.sas

    *****/
  LENGTH PCM $3. ;

  IF ACV in ('Z', ' ') THEN PCM = ' ';
  ELSE IF ('6900' < ENRID <= '6919' OR
    '7900' < ENRID <= '7919' OR
    '8000' < ENRID < '8090' OR
    '0190' <= ENRID <= '0199')
    THEN PCM='CIV';
  ELSE PCM='MTF';

select (patcat);
  when ('ACTDTY') enbgsmpl='01';
  when ('DEPACT')
    do;
      select (pcm);
        when ('CIV') enbgsmpl='02';
        when ('MTF') enbgsmpl='03';

```

```

        when ( ' ' ) enbgsmpl='04';
        otherwise enbgsmpl='c';
    end;
end;
when('NADD<65')
do;
select (pcm);
    when ('CIV') enbgsmpl='05';
    when ('MTF') enbgsmpl='06';
    when ( ' ' ) enbgsmpl='07';
    otherwise enbgsmpl='d';
end;
end;
when('NADD65+')enbgsmpl = '10';
when('UNKNOWN')
do;
if pntypcd='S' then
do;
if pnlcatcd in ('A','J','N','V') then enbgsmpl='01';
else if dageqy = ' ' then enbgsmpl='f';
else if dageqy <= '064' then
do;
select (pcm);
    when ('CIV') enbgsmpl='05';
    when ('MTF') enbgsmpl='06';
    when ( ' ' ) enbgsmpl='07';
    otherwise enbgsmpl='g';
end;
end;
else if dageqy > '064' then enbgsmpl='10';
end;
else if pntypcd='D' then
do;
if pnlcatcd in ('A','J','N','V') then
do;
select (pcm);
    when ('CIV') enbgsmpl='02';
    when ('MTF') enbgsmpl='03';
    when ( ' ' ) enbgsmpl='04';
    otherwise enbgsmpl='h';
end;
end;
else if dageqy = ' ' then enbgsmpl='i';
else if dageqy <= '064' then
do;
select (pcm);
    when ('CIV') enbgsmpl='05';
    when ('MTF') enbgsmpl='06';
    when ( ' ' ) enbgsmpl='07';
    otherwise enbgsmpl='j';
end;
end;
else if dageqy > '064' then enbgsmpl='10';
end;
else enbgsmpl='e';
end;
otherwise enbgsmpl='b';
end;

/****For 2005 only;*/
if tnexreg in ('N', 'S', 'W') then do;
    if pcm in( 'MTF', 'CIV') then enlsmpl = 1;
    else if pcm = ' ' then enlsmpl = 2;
end;
else if tnexreg = 'O' then do;
    enlsmpl=9;
end;
else enlsmpl = 4;

if tnexreg in ('N', 'S', 'W') then do;
    if pcm = 'MTF' then enlsmpl2 = 1;
    if pcm = 'CIV' then enlsmpl2 = 2;
    if pcm = ' ' then enlsmpl2 = 3;
end;

```

```

else if tnexreg = 'O' then do;
    enlsmpl2=9;
end;

*****
* MPCSMPL follows the recode for the 1999 data.  If the individuals can
* be classified as an officer or a warrant officer, they are.  Otherwise, the
* individuals are classified as enlisted.
*****;
IF PAYPLNCD = 'MO' then
    MPCSMPL = 2;
ELSE IF PAYPLNCD = 'MW' then
    MPCSMPL = 3;
ELSE
    MPCSMPL = 1;
LABEL MPCSMPL = "MPCSMPL - Military Personnel Category";
*****
* Relabel ENBGSMP variable for consistency with prior releases.
*****;
LABEL ENBGSMP = "Enrollment by beneficiary category";
POSTSTR = STRATUM;
STRATUM = SAMPSTR;
DROP SAMPSTR;
LABEL POSTSTR = "Post Stratification Cell";
LABEL STRATUM = "Sampling STRATUM";
*****
* Calculate FIELDAGE based on PNBRTHTD using fielding period
* starting date.
*****;
FIELDAGE = INPUT("&FIELDAGE",mmdyy8.);
DOB = SUBSTR(PNBRTHTD,5,2) || SUBSTR(PNBRTHTD,7,2) || SUBSTR(PNBRTHTD,1,4);
BRTHDATE = INPUT(DOB,mmdyy8.);
FIELDAGE = PUT(INT((FIELDAGE - BRTHDATE)/365.25),Z3.);
LABEL FIELDAGE = "Age as of &FIELDLBL";

LENGTH ONTIME $3;
ONTIME = "YES";
LABEL ONTIME = "Responded Within 8 weeks of Mail-Out";

*****
* Recode unknown values of MRTLSTAT into one 'Unknown' group (Z).
*****;
IF MRTLSTAT NOT IN ("A","D","I","L","M","N","S","W","Z"," ") THEN MRTLSTAT = "Z";

DROP FIELDAGE DOB BRTHDATE;

IF IN2;
RUN;

TITLE1 "Annual Child DOD Health Survey - Combine NRC, MPR and DEERS variables (6077-300)";
TITLE2 "Program Name: MERGNRCC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: dod05q3child.sas7bdat, FRAMEC/SAMPLC01/C02.SD2 -- Program Output:
MERGNRCC.SD2";

PROC CONTENTS; RUN;

PROC FREQ DATA=OUT.MERGNRCC(DROP=MPRID MIQCNTL);
TABLES E1*E2*E3*E4*E5 FLAG_FIN ONTIME /*TRICKDUP */
      WEB DAGEQY*FIELDAGE TNEXSMPL*CONUS _ALL_ /MISSING LIST;
RUN;

```

F.2 CODINGSCHEME\CSCHM05C.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES.

```

*****
*
* PROGRAM: CSCHM04C.SAS
* PURPOSE: APPLY CODING SCHEME TO DATA.
* WRITTEN: 09/04/01 Rankin
* MODIFIED: 10/23/2001 C.Rankin recoded select variables
*           to 1=marked, 2=missing
*           : 09/23/2003 J.Agufa- Updated program for 2003 survey
*           : 09/15/2004 J.Agufa- Updated program for 2004 survey
*           : 12/05/2005 J.Agufa- Updated program for 2005 survey
*
* PREVIOUS PROGRAM: MERG NRCC.SAS
*
* INPUT: MERG NRCC.SD2
* OUTPUT: CSCHM04C.SD2
*
*****;

OPTIONS /*OBS=100*/ PS=79 LS=132 PAGENO=1;

LIBNAME LIBRARY V612 '..\..\DATA\CFINAL\FMTLIB';
LIBNAME IN V612 '..\..\DATA\CFINAL';
LIBNAME OUT V612 '..\..\DATA\CFINAL';

%LET INDATA=MERG NRCC;
%LET OUTDATA=CSCHM05C;

/* Vairable names in survey -- become recoded variables */
/* Note: Includes questions from both versions of the questionnaire */

%Let varlist1 =
C05001 C05002A C05002B C05002C C05002D C05002E C05002F
C05002G C05002H C05002I C05003 C05004 C05005 C05006
C05007 C05008 C05009 C05010 C05011 C05012 C05013
C05014 C05015 C05016 C05017 C05018 C05019 C05020
C05021 C05022 C05023 C05024 C05025 C05026 C05027
C05028 C05029 C05030 C05031 C05032 C05033 C05034
C05035 C05036 C05037 C05038 C05039 C05040 C05041
C05042 C05043 C05044 C05045 C05046 C05047 C05048
C05049 C05050 C05051 C05052 C05053 C05054 C05055
C05056 C05057 C05058 C05059 C05060 C05061 C05062
C05063 C05064 C05065 C05066 C05067 C05068 C05069
C05070 C05071 C05072 C05073 C05074 C05075 C05076
C05077 C05078 C05079 C05080 C05081 C05082 C05083
C05084 C05085 C05086 C05087 C05088 C05089 C05090A
C05090B C05090C C05090D C05091 C05092 C05093F C05093I
C05094 C05095 C05096 C05097 C05098 C05099 C05100
C05101 C05102 C05103 C05104 C05105 C05105A C05105B
C05105C C05105D C05105E C05106A C05106B C05106C C05106D
C05106E C05107 C05108 C05109 C05110 C05111
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
C05001_O C05002A_O C05002B_O C05002C_O C05002D_O C05002E_O C05002F_O
C05002G_O C05002H_O C05002I_O C05003_O C05004_O C05005_O C05006_O
C05007_O C05008_O C05009_O C05010_O C05011_O C05012_O C05013_O
C05014_O C05015_O C05016_O C05017_O C05018_O C05019_O C05020_O
C05021_O C05022_O C05023_O C05024_O C05025_O C05026_O C05027_O
C05028_O C05029_O C05030_O C05031_O C05032_O C05033_O C05034_O
C05035_O C05036_O C05037_O C05038_O C05039_O C05040_O C05041_O
C05042_O C05043_O C05044_O C05045_O C05046_O C05047_O C05048_O
C05049_O C05050_O C05051_O C05052_O C05053_O C05054_O C05055_O
C05056_O C05057_O C05058_O C05059_O C05060_O C05061_O C05062_O
C05063_O C05064_O C05065_O C05066_O C05067_O C05068_O C05069_O
C05070_O C05071_O C05072_O C05073_O C05074_O C05075_O C05076_O
C05077_O C05078_O C05079_O C05080_O C05081_O C05082_O C05083_O
C05084_O C05085_O C05086_O C05087_O C05088_O C05089_O C05090A_O

```

```

C05090BO    C05090CO    C05090DO    C05091_O    C05092_O    C05093FO    C05093IO
C05094_O    C05095_O    C05096_O    C05097_O    C05098_O    C05099_O    C05100_O
C05101_O    C05102_O    C05103_O    C05104_O    C05105_O    C05105AO    C05105BO
C05105CO    C05105DO    C05105EO    C05106AO    C05106BO    C05106CO    C05106DO
C05106EO    C05107_O    C05108_O    C05109_O    C05110_O    C05111_O
;

```

```

TITLE 'DoD 2005 Child Survey';
TITLE2 'Apply Coding Scheme';

```

```
DATA &OUTDATA;
```

```
SET IN.&INDATA(RENAME=(C05094=C05094CH C05103=C05103CH));
```

```

/* This correction is for 2005 data */
**** update variables with both filled items and check boxes
**** Per Eric Schone;

```

```

IF C05093F LT 1      THEN C05093F=C05093FN;
IF C05093I IN (-9,.) THEN C05093I=C05093IN;

```

```
C05094= COMPRESS(C05094CH,' ')*1;
```

```
DROP C05094CH;
```

```

IF C05094=0 AND C05094N=-9      THEN C05094 =C05094N;
IF C05094<100 AND C05094N NE -9 THEN C05094 =C05094N;
IF C05094=0                      THEN C05094 =-7;

```

```
C05103= COMPRESS(C05103CH,' ')*1;
```

```
DROP C05103CH;
```

```
IF C05103N > C05103 THEN C05103 =C05103N;
```

```

/* JMA 2005
****in 2005, the responses were increased to distinguish the
****Spanish, Hispanic or Latin origin. Multiple responses
****were given to this question so C05105 is being created
****from the multiple responses per Eric Schone;
*/

```

```

IF C05105B=1 THEN C05105=2;
ELSE IF C05105E=1 THEN C05105=5;
ELSE IF C05105C=1 THEN C05105=3;
ELSE IF C05105D=1 THEN C05105=4;
ELSE IF C05105A=1 THEN C05105=1;

```

```
RUN;
```

```
DATA OUT.&OUTDATA;
```

```
%INCLUDE "CSCHM05C.FMT"; /* label and format statements */
```

```
SET &OUTDATA;
```

```

ARRAY RECODE &VARLIST1;
ARRAY ORIG &VARLIST2;

```

```

DO I = 1 to DIM(ORIG);
  ORIG(I) = RECODE(I);
  IF ORIG(I) < 0 THEN DO;
    IF ORIG(I)= -9 THEN RECODE(I)=.;
    ELSE IF ORIG(I)= -8 THEN RECODE(I)=.A;
    ELSE IF ORIG(I)= -7 THEN RECODE(I)=.O;
    ELSE IF ORIG(I)= -6 THEN RECODE(I)=.N;
    ELSE IF ORIG(I)= -5 THEN RECODE(I)=.D;
    ELSE IF ORIG(I)= -4 THEN RECODE(I)=.I;
    ELSE IF ORIG(I)= -1 THEN RECODE(I)=.C;
  END;

```

```

        ELSE RECODE(I)=RECODE(I);
    END;
END;
DROP I;

/* recode selected responses to be 1=marked, 2=unmarked */

ARRAY MARKED(*) C05002A C05002B C05002C C05002D C05002E C05002F
                C05002G C05002H C05002I
                C05090A C05090B C05090C C05090D
                C05105A C05105B C05105C C05105D C05105E
                C05106A C05106B C05106C C05106D C05106E
                ;

ARRAY INFORMAT(*) C05002AO C05002BO C05002CO C05002DO C05002EO C05002FO
                 C05002GO C05002HO C05002IO
                 C05090AO C05090BO C05090CO C05090DO
                 C05105AO C05105BO C05105CO C05105DO C05105EO
                 C05106AO C05106BO C05106CO C05106DO C05106EO
                 ;

DO J=1 TO DIM(INFORMAT);
    IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
    ELSE MARKED(J)=2;
END;
DROP J;

/* skip coding scheme for all surveys not returned */

IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;

/* NOTE 1: C05006, C05007--C05008: Personal doctor or nurse*/

ARRAY NOTE1 C05007-C05008;
N1NMISS=0;
N1MARK=0;

DO OVER NOTE1;
    IF NOTE1 NE . THEN N1NMISS+1;
    IF NOTE1 NOT IN (.,.N) THEN N1MARK+1;
END;

IF C05006=1 AND (N1MARK >0 OR N1NMISS=0) THEN DO;
    N1=1;
    DO OVER NOTE1;
        IF NOTE1=.N THEN NOTE1=.;
    END;
END;
ELSE IF C05006 IN (1,.) AND (N1NMISS>0 AND N1MARK=0) THEN DO;
    N1=2;
    C05006=2;
    DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
    END;
END;
ELSE IF C05006 IN (2,.) AND C05007 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    N1=3;
    C05006=1;
END;
ELSE IF C05006 IN (2) AND C05007=.N THEN DO;
    N1=4;
    DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
    END;
END;
ELSE IF C05006=2 AND (N1NMISS=0 OR (N1NMISS>0 AND N1MARK=0)) THEN DO;
    N1=5;
    DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
    END;
END;

```

```

        END;
    END;
    ELSE IF C05006 IN (2,.) AND C05007=. AND C05008 NOT IN (.,.N) THEN DO;
        N1=6;
    END;
    ELSE IF C05006 IN (.) AND C05007=.N THEN DO;
        N1=7;
        C05006=2;
        DO OVER NOTE1;
            IF NOTE1=. THEN NOTE1=.N;
            ELSE NOTE1=.C;
        END;
    END;
    ELSE IF C05006=. AND N1NMISS=0 THEN N1=8;
    DROP N1MARK N1NMISS;

/** Note2 -- C05008, C05009: Personal doctor or nurse **/

    IF C05008 IN (.N, .C) THEN N2=1;
    ELSE IF C05008 IN (1,.) AND C05009 GT 0 THEN DO;
        C05008=2;
        N2=2;
    END;
    ELSE IF C05008=1 AND C05009 IN (.) THEN DO;
        C05009=.N;
        N2=3;
    END;
    ELSE IF C05008=2 AND C05009 IN (1,2,3,.) THEN N2=4;
    ELSE IF C05008=. AND C05009=. THEN N2=5;

/** Note 3 -- C05011, C05012, C05013: Personal doctor or nurse **/

    ARRAY NOTE3 C05012 C05013;
    N3MARK=0;
    N3NMISS=0;

    DO OVER NOTE3;
        IF NOTE3 NE . THEN N3NMISS+1;
        IF NOTE3 NOT IN (.N,.) THEN N3MARK+1;
    END;

    IF C05011=1 AND (N3NMISS=0 OR N3MARK>0) THEN N3=1;
    ELSE IF C05011 IN (2,.) AND N3MARK>0 THEN DO;
        C05011=1;
        N3=2;
    END;
    ELSE IF C05011=2 AND (N3NMISS=0) THEN DO;
        N3=3;
        DO OVER NOTE3;
            IF NOTE3=. THEN NOTE3=.N;
        END;
    END;
    ELSE IF C05011=. AND N3NMISS=0 THEN N3=4;
    DROP N3NMISS N3MARK;

/* NOTE 4: C05014, C05015-C05017: Primary Care Manager */
    ARRAY NOTE4 C05015-C05017;
    N4MARK=0;
    N4NMISS=0;

    DO OVER NOTE4;
        IF NOTE4 NE . THEN N4NMISS+1 ;
        IF NOTE4 NOT IN (.N, .,.,D) THEN N4MARK+1;
    END;

    IF C05014=1 AND N4NMISS=0 THEN N4=1;
    ELSE IF C05014 IN (1,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
        C05014=2;
        N4=2;
        DO OVER NOTE4;
            IF NOTE4= . THEN NOTE4 = .N;

```

```

        ELSE NOTE4= .C;
    END;
END;
ELSE IF C05014 IN (1,.) AND C05015=-6 AND C05016=-6 THEN DO;
    C05014=2;
    N4=3;
    DO OVER NOTE4;
        IF NOTE4= . THEN NOTE4 = .N;
        ELSE NOTE4= .C;
    END;
END;
ELSE IF C05014 IN (1,.) AND N4MARK > 0 THEN DO;
    C05014=1;
    N4=4;

    DO OVER NOTE4;
        IF NOTE4= .N THEN NOTE4 = .;
    END;
END;
ELSE IF C05014 IN (2,.D,.N) AND N4NMISS=0 THEN DO;
    N4=5;
    DO OVER NOTE4;
        NOTE4 = .N;
    END;
END;
ELSE IF C05014 IN (2,.D,.N) AND N4MARK>0 THEN DO;
    N4=6;
    C05014=1;
END;
ELSE IF C05014 IN (2,.D,.N) AND N4NMISS>0 AND N4MARK=0 THEN DO;
    N4=7;
    C05014=2;
    DO OVER NOTE4;
        IF NOTE4=. THEN NOTE4=.N;
        ELSE NOTE4=.C;
    END;
END;
ELSE IF C05014=. AND N4NMISS=0 THEN N4=8;

DROP N4MARK N4NMISS;

/** Note5 -- C05018, C05019: Specialist **/

IF C05018=1 AND C05019 IN (1,2,3,.) THEN N5=1;
ELSE IF C05018 IN (1,.) AND C05019=.N THEN DO;
    C05018=2;
    C05019=.C;
    N5=2;
END;
ELSE IF C05018 IN (2,.) AND C05019 GT 0 THEN DO;
    C05018=1;
    N5=3;
END;
ELSE IF C05018=2 AND C05019 IN (.N,.) THEN DO;
    IF C05019=. THEN C05019=.N;
    ELSE C05019=.C;
    N5=4;
END;
ELSE IF C05018=. AND C05019=. THEN N5=5;

/** Note 6 -- C05020, C05021, C05022: Child See Specialist **/

ARRAY NOTE6 C05021 C05022;
N6MARK=0;
N6NMISS=0;

DO OVER NOTE6;
    IF NOTE6 NE . THEN N6NMISS+1;
    IF NOTE6 NOT IN (.N,.) THEN N6MARK+1;
END;

```

```

IF C05020=1 AND (N6NMISS=0 OR N6MARK>0) THEN do;
  N6=1;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
END;
ELSE IF C05020 IN (1,.) AND N6NMISS>0 AND N6MARK=0 THEN DO;
  C05020=2;
  N6=2;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF C05020 IN (2,.) AND N6MARK>0 THEN DO;
  C05020=1;
  N6=3;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
END;
ELSE IF C05020=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
  N6=4;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF C05020=. AND N6NMISS=0 THEN N6=5;
DROP N6NMISS N6MARK;

```

/** Note 7 -- call during regular office hours: C05023, C05024 **/

```

IF C05023 = 1 AND C05024 IN (1,2,3,4,.) THEN N7=1;
ELSE IF C05023 IN (1,.) AND C05024=.N THEN DO;
  N7=2;
  C05023=2;
  C05024=.C;
END;
ELSE IF C05023 IN (2,.) AND C05024 GE 1 THEN DO;
  N7=3;
  C05023=1;
END;
ELSE IF C05023=2 AND C05024 IN (.N,.) THEN DO;
  N7=4;
  IF C05024=. THEN C05024=.N;
  ELSE C05024=.C;
END;
ELSE IF C05023=. AND C05024=. THEN N7=5;

```

/** Note 8 -- Needed care right away: C05025, C05026 **/

```

IF C05025 = 1 AND (C05026 GE 1 OR C05026 IN (,)) THEN N8=1;
ELSE IF C05025 IN (1,.) AND C05026=.N THEN DO;
  N8=2;
  C05025=2;
  C05026=.C;
END;
ELSE IF C05025 IN (2,.) AND (C05026 GE 1) THEN DO;
  N8=3;
  C05025=1;
END;
ELSE IF C05025=2 AND C05026 IN (.N,.) THEN DO;
  N8=4;
  IF C05026=. THEN C05026=.N;
  ELSE C05026=.C;
END;
ELSE IF C05025=. AND C05026=. THEN N8=5;

```

```

/** Note 9 -- Needed care right away:  C05027, C05028 **/

IF C05027 = 1 AND (C05028 GE 1 OR C05028 IN (..)) THEN N9=1;
ELSE IF C05027 IN (1,..) AND C05028=.N THEN DO;
    N9=2;
    C05027=2;
    C05028=.C;
END;
ELSE IF C05027 IN (2,..) AND (C05028 GE 1) THEN DO;
    N9=3;
    C05027=1;
END;
ELSE IF C05027=2 AND C05028 IN (..N,..) THEN DO;
    N9=4;
    IF C05028=. THEN C05028=.N;
    ELSE C05028=.C;
END;
ELSE IF C05027=. AND C05028=. THEN N9=5;

/** Note 10 - doctor's office or clinic:  C05030 -- C05050 **/

ARRAY NOTE10  C05031-C05050;

N10NMISS=0;
N10MARK=0;

DO OVER NOTE10;
    IF NOTE10 NE . THEN N10NMISS+1;
    IF NOTE10 NOT IN (., .N) THEN N10MARK+1;
END;

IF C05030=1 THEN DO;
    N10=1;
    DO OVER NOTE10;
        IF NOTE10 =. THEN NOTE10=.N;
        ELSE NOTE10=.C;
    END;
END;
ELSE IF C05030 IN (..) AND N10MARK>0 THEN DO;
    N10=2;
    DO OVER NOTE10;
        IF NOTE10 =.N THEN NOTE10=.;
    END;
END;
ELSE IF C05030 GE 2 AND (N10NMISS=0 OR N10MARK>0) THEN DO;
    N10=3;
    DO OVER NOTE10;
        IF NOTE10 =.N THEN NOTE10=.;
    END;
END;
ELSE IF C05030 IN (2,3,4,5,6,7,..) AND N10NMISS> 0 AND N10MARK=0 THEN DO;
    N10=4;
    C05030=1;
    DO OVER NOTE10;
        IF NOTE10=. THEN NOTE10=.N;
        ELSE NOTE10=.C;
    END;
END;
ELSE IF C05030=. AND N10NMISS= 0 THEN N10=5;

DROP N10NMISS N10MARK;

/** Note 11 -- Needed care, tests, or treatment :  C05031, C05032 **/

IF C05031 IN (..N, .C) THEN N11=1;
ELSE IF C05031 = 1 AND (C05032 GE 1 OR C05032 IN (..)) THEN N11=2;
ELSE IF C05031 IN (1,..) AND C05032=.N THEN DO;
    N11=3;
    C05031=2;

```

```

C05032=.C;
END;
ELSE IF C05031 IN (2,.) AND (C05032 GE 1 ) THEN DO;
  N11=4;
  C05031=1;
END;
ELSE IF C05031=2 AND C05032 IN (.N,.) THEN DO;
  N11=5;
  IF C05032=. THEN C05032=.N;
  ELSE C05032=.C;
END;
ELSE IF C05031=. AND C05032=. THEN N11=6;

```

/** Note 12 -- Approval for child's health care : C05033, C05034 **/

```

IF C05033 IN (.N, .C) THEN N12=1;
ELSE IF C05033 = 1 AND (C05034 GE 1 OR C05034 IN (,)) THEN N12=2;
ELSE IF C05033 IN (1,.) AND C05034=.N THEN DO;
  N12=3;
  C05033=2;
  C05034=.C;
END;
ELSE IF C05033 IN (2,.) AND (C05034 GE 1) THEN DO;
  N12=4;
  C05033=1;
END;
ELSE IF C05033=2 AND C05034 IN (.N,.) THEN DO;
  N12=5;
  IF C05034=. THEN C05034=.N;
  ELSE C05034=.C;
END;
ELSE IF C05033=. AND C05034 IN (,.) THEN N12=6;

```

/** NOTE13 - child able to talk with doctors: C05041, C05042 **/

```

IF C05041 IN (.N, .C) THEN N13=1;
ELSE IF C05041 = 1 AND (C05042 GE 1 OR C05042 IN (,)) THEN N13=2;
ELSE IF C05041 IN (1,.) AND C05042=.N THEN DO;
  N13=3;
  C05041=2;
  C05042=.C;
END;
ELSE IF C05041 IN (2,.) AND (C05042 GE 1 ) THEN DO;
  N13=4;
  C05041=1;
END;
ELSE IF C05041=2 AND C05042 IN (.N,.) THEN DO;
  N13=5;
  IF C05042=. THEN C05042=.N;
  ELSE C05042=.C;
END;
ELSE IF C05041=. AND C05042 IN (,.) THEN N13=6;

```

/** Note 14 -- C05044, C05045,C05047: Questions or concerns about child's health **/

```

ARRAY NOTE14 C05045-C05047;
N14MARK=0;
N14NMISS=0;

IF C05044 IN (.C,.N) THEN N14=1;
ELSE DO;
  DO OVER NOTE14;
    IF NOTE14 NE . THEN N14NMISS+1;
    IF NOTE14 NOT IN (.N,.) THEN N14MARK+1;
  END;

  IF C05044=1 AND (N14NMISS=0 OR N14MARK>0) THEN N14=2;
  ELSE IF C05044 IN (2,.) AND N14MARK>0 THEN DO;
    C05044=1;
    N14=3;
  END;

```

```

END;
ELSE IF C05044=2 AND (N14NMISS=0) THEN DO;
  N14=4;
  DO OVER NOTE14;
    IF NOTE14=. THEN NOTE14=.N;
  END;
END;
ELSE IF C05044=. AND N14NMISS=0 THEN N14=5;

DROP N14NMISS N14MARK;

END;

/** Note 15 -- C05048, C05049: Decisions made about child's healthcare **/

IF C05048 IN (.C,.N) AND C05049 IN (.C,.N)
THEN N15=1;
ELSE IF C05048=1 THEN N15=2;
ELSE IF C05048 IN (2,.) AND C05049 IN (1,2,3,4) THEN DO;
  C05048=1;
  N15=3;
END;
ELSE IF C05048=2 THEN DO;
  N15=4;
  IF C05049=. THEN C05049=.N;
  ELSE C05049=.C;
END;
ELSE IF C05048=. AND C05049=. THEN N15=5;

/** Note 16 -- C05051, C05052-C05053: Child enrolled in school **/

IF C05051=1 THEN DO;
  IF C05052=1 THEN N16=1;
  ELSE IF C05052=2 THEN DO;
    IF C05053 NE . THEN C05053=.C;
    ELSE C05053 = .N;
    N16=2;
  END;
  ELSE IF C05052 IN (.) THEN DO;
    IF C05053 NE . THEN DO;
      C05052=1;
      N16=3;
    END;
    ELSE N16=4;
  END;
END;
ELSE IF C05051=2 THEN DO;
  N16=5;
  IF C05052 NE . THEN C05052= .C;
  ELSE C05052= .N;
  IF C05053 NE . THEN C05053= .C;
  ELSE C05053= .N;
END;
ELSE IF C05051 IN (.) THEN DO;
  IF C05052=1 THEN DO;
    C05051 = 1;
    N16=6;
  END;
  IF C05052=2 THEN DO;
    IF C05053 NE . THEN C05053=.C;
    ELSE C05053 = .N;
    N16=7;
  END;
  ELSE IF C05052 IN (.) THEN DO;
    IF C05053 NE . THEN DO;
      C05051=1;
      C05052=1;
      N16=8;
    END;
    ELSE N16=9;
  END;

```

```

        END;
    END;

/* NOTE 17 C05054, C05055-C05056: Special medical equipment or devices*/

    IF C05054=1 THEN DO;
        IF C05055 IN (1,2, .) THEN N17=1;
        ELSE IF C05055=3 THEN DO;
            IF C05056 NE . THEN C05056=.C;
            ELSE C05056 = .N;
            N17=2;
        END;
    END;
    ELSE IF C05054 IN (2, .) AND C05055 IN (1, 2) THEN DO;
        C05054= 1;
        N17=3;
    END;
    ELSE IF C05054=2 THEN DO;
        N17=4;
        IF C05055 NE . THEN C05055= .C;
        ELSE C05055= .N;
        IF C05056 NE . THEN C05056= .C;
        ELSE C05056= .N;
    END;
    ELSE IF C05054 IN (.) THEN DO;
        IF C05055=3 THEN DO;
            IF C05056 NE . THEN C05056=.C;
            ELSE C05056 = .N;
            N17=5;
        END;
        ELSE N17=6;
    END;

/* NOTE 18 C05057, C05058-C05059: Special therapy */

    IF C05057=1 THEN DO;
        IF C05058 IN (1,2,..) THEN N18=1;
        ELSE IF C05058=3 THEN DO;
            IF C05059 NE . THEN C05059=.C;
            ELSE C05059 = .N;
            N18=2;
        END;
    END;
    ELSE IF C05057 IN (2, .) AND C05058 IN (1, 2) THEN DO;
        C05057= 1;
        N18=3;
    END;
    ELSE IF C05057=2 AND C05058 IN (3, .) THEN DO;
        N18=4;
        IF C05058 NE . THEN C05058= .C;
        ELSE C05058= .N;
        IF C05059 NE . THEN C05059= .C;
        ELSE C05059= .N;
    END;
    ELSE IF C05057 IN (.) AND C05058 IN (3, .) THEN DO;
        IF C05058=3 THEN DO;
            IF C05059 NE . THEN C05059=.C;
            ELSE C05059 = .N;
            N18=5;
        END;
        ELSE N18=6;
    END;

/* NOTE 19 C05060, C05061-C05062: Emotional development */

    IF C05060=1 THEN DO;
        IF C05061 IN (1,2, .) THEN N19=1;
        ELSE IF C05061=3 THEN DO;
            IF C05062 NE . THEN C05062=.C;
            ELSE C05062 = .N;

```

```

        N19=2;
    END;
END;
ELSE IF C05060 IN (2, .) AND C05061 IN (1, 2) THEN DO;
    C05060= 1;
    N19=3;
END;
ELSE IF C05060=2 AND C05061 IN (3, .) THEN DO;
    N19=4;
    IF C05061 NE . THEN C05061= .C;
    ELSE C05061= .N;
    IF C05062 NE . THEN C05062= .C;
    ELSE C05062= .N;
END;
ELSE IF C05060 IN (.) AND C05061 IN (3, .) THEN DO;
    IF C05061=3 THEN DO;
        IF C05062 NE . THEN C05062=.C;
        ELSE C05062 = .N;
        N19=5;
    END;
    ELSE N19=6;
END;

/** Note20 -- C05063, C05064: More than 1 kind of health provider **/

IF C05063=1 AND C05064 IN (1,2,.) THEN N20=1;
ELSE IF C05063 IN (2,.) AND (C05064 GT 0 ) THEN DO;
    C05063=1;
    N20=2;
END;
ELSE IF C05063=2 AND C05064 IN (.) THEN DO;
    C05064=.N;
    N20=3;
END;
ELSE IF C05063=. AND C05064=. THEN N20=4;

/** Note 21 - written materials: C05065, C05066 **/

IF C05065=1 AND C05066 IN (1,2,3,.) THEN N21=1;
ELSE IF C05065 IN (1,.) AND C05066=.N THEN DO;
    N21=2;
    C05065=2;
    C05066=.C;
END;
ELSE IF C05065 IN (2,.) AND C05066 IN (1,2,3) THEN DO;
    C05065=1;
    N21=3;
END;
ELSE IF C05065=2 AND C05066 IN (., .N) THEN DO;
    N21=4;
    IF C05066=. THEN C05066=.N;
    ELSE C05066=.C;
END;
ELSE IF C05065=. AND C05066= . THEN N21=5;

/** Note 22 - customer service: C05067, C05068 **/

IF C05067=1 AND C05068 IN (1,2,3,.) THEN N22=1;
ELSE IF C05067 IN (1,.) AND C05068=.N THEN DO;
    N22=2;
    C05067=2;
    C05068=.C;
END;
ELSE IF C05067 IN (2,.) AND C05068 IN (1,2,3) THEN DO;
    N22=3;
    C05067=1;
END;
ELSE IF C05067=2 AND C05068 IN (.,.N) THEN DO;
    N22=4;
    IF C05068=. THEN C05068=.N;

```

```

        ELSE C05068 =.C;
    END;
    ELSE IF C05067=. AND C05068=. THEN N22=5;

    /** Note 23 - paperwork: C05069, C05070      **/

    IF C05069=1 AND C05070 IN (1,2,3,.) THEN N23=1;
    ELSE IF C05069 IN (1,.) AND C05070=.N THEN DO;
        N23=2;
        C05069=2;
        C05070=.C;
    END;
    ELSE IF C05069 IN (2,.) AND C05070 IN (1,2,3) THEN DO;
        N23=3;
        C05069=1;
    END;
    ELSE IF C05069=2 AND C05070 IN (.N,.) THEN DO;
        N23=4;
        IF C05070=. THEN C05070=.N;
        ELSE C05070=.C;
    END;
    ELSE IF C05069=. AND C05070=. THEN N23=5;

    /* NOTE 24 C05072, C05073-C05074: Get a prescription*/

    IF C05072=1 THEN DO;
        IF C05073 IN (1,2, .) THEN N24=1;
        ELSE IF C05073=3 THEN DO;
            IF C05074 NE . THEN C05074=.C;
            ELSE C05074 = .N;
            N24=2;
        END;
    END;
    ELSE IF C05072 IN (2, .) AND C05073 IN (1, 2) THEN DO;
        C05072= 1;
        N24=3;
    END;
    ELSE IF C05072=2 AND C05073 IN (3, .) THEN DO;
        N24=4;
        IF C05073 NE . THEN C05073= .C;
        ELSE C05073= .N;
        IF C05074 NE . THEN C05074= .C;
        ELSE C05074= .N;
    END;
    ELSE IF C05072 IN (.) AND C05073 IN (3, .) THEN DO;
        IF C05073=3 THEN DO;
            IF C05074 NE . THEN C05074=.C;
            ELSE C05074 = .N;
            N24=5;
        END;
        ELSE N24=6;
    END;

    /* NOTE 25 C05076, C05077-C05078: Medicine prescribed by doctor*/

    IF C05076=1 THEN DO;
        IF C05077=1 THEN N25=1;
        ELSE IF C05077=2 THEN DO;
            IF C05078 NE . THEN C05078=.C;
            ELSE C05078 = .N;
            N25=2;
        END;
        ELSE IF C05077 IN (.) THEN DO;
            IF C05078 NE . THEN DO;
                C05077=1;
                N25=3;
            END;
            ELSE N25=4;
        END;
    END;

```

```

END;
ELSE IF C05076=2 THEN DO;
  N25=5;
  IF C05077 NE . THEN C05077= .C;
  ELSE C05077= .N;
  IF C05078 NE . THEN C05078= .C;
  ELSE C05078= .N;
END;
ELSE IF C05076 IN (.) THEN DO;
  IF C05077=2 THEN DO;
    IF C05078 NE . THEN C05078=.C;
    ELSE C05078 = .N;
    N25=6;
  END;
  ELSE N25=7;
END;

```

/* NOTE 26 C05079, C05080-C05081: Medical, health, education service*/

```

IF C05079=1 THEN DO;
  IF C05080=1 THEN N26=1;
  ELSE IF C05080=2 THEN DO;
    IF C05081 NE . THEN C05081=.C;
    ELSE C05081 = .N;
    N26=2;
  END;
  ELSE IF C05080 IN (.) THEN DO;
    IF C05081 NE . THEN DO;
      C05080=1;
      N26=3;
    END;
    ELSE N26=4;
  END;
END;
ELSE IF C05079=2 THEN DO;
  N26=5;
  IF C05080 NE . THEN C05080= .C;
  ELSE C05080= .N;
  IF C05081 NE . THEN C05081= .C;
  ELSE C05081= .N;
END;
ELSE IF C05079 IN (.) THEN DO;
  IF C05080=2 THEN DO;
    IF C05081 NE . THEN C05081=.C;
    ELSE C05081 = .N;
    N26=6;
  END;
  N26=7;
END;

```

/* NOTE 27 C05082, C05083-C05084: Child limited or prevented*/

```

IF C05082=1 THEN DO;
  IF C05083=1 THEN N27=1;
  ELSE IF C05083=2 THEN DO;
    IF C05084 NE . THEN C05084=.C;
    ELSE C05084 = .N;
    N27=2;
  END;
  ELSE IF C05083 IN (.) THEN DO;
    IF C05084 NE . THEN DO;
      C05083=1;
      N27=3;
    END;
    ELSE N27=4;
  END;
END;
ELSE IF C05082=2 THEN DO;
  N27=5;
  IF C05083 NE . THEN C05083= .C;

```

```

        ELSE C05083= .N;
        IF C05084 NE . THEN C05084= .C;
        ELSE C05084= .N;
    END;
    ELSE IF C05082 IN (.) THEN DO;
        IF C05083=2 THEN DO;
            IF C05084 NE . THEN C05084=.C;
            ELSE C05084 = .N;
            N27=6;
        END;
        ELSE N27=7;
    END;
END;

```

/* NOTE 28 C05085, C05086-C05087: Special Therapy*/

```

    IF C05085=1 THEN DO;
        IF C05086=1 THEN N28=1;
        ELSE IF C05086=2 THEN DO;
            IF C05087 NE . THEN C05087=.C;
            ELSE C05087 = .N;
            N28=2;
        END;
        ELSE IF C05086 IN (.) THEN DO;
            IF C05087 NE . THEN DO;
                C05086=1;
                N28=3;
            END;
            ELSE N28=4;
        END;
    END;
    ELSE IF C05085=2 THEN DO;
        N28=5;
        IF C05086 NE . THEN C05086= .C;
        ELSE C05086= .N;
        IF C05087 NE . THEN C05087= .C;
        ELSE C05087= .N;
    END;
    ELSE IF C05085 IN (.) THEN DO;
        IF C05086=2 THEN DO;
            IF C05087 NE . THEN C05087=.C;
            ELSE C05087 = .N;
            N28=6;
        END;
        N28=7;
    END;
END;

```

/** Note 29: C05088, C05089: Need treatment or counseling **/

```

    IF C05088=1 THEN N29=1;
    ELSE IF C05088=2 AND C05089=. THEN DO;
        N29=2;
        C05089=.N;
    END;
    ELSE IF C05088 IN (2,.) AND C05089 IN (1,2) THEN DO;
        N29=3;
        C05088=1;
    END;
    ELSE IF C05088=. AND C05089=. THEN N29=4;

```

/** Note 30: C05090A-C05090D, C05091: Services received under
PFPWD/ECHO/ICMP-PEC/CCTP
**/

```

    IF (C05090A IN (2) AND C05090B IN (2) AND C05090C IN (2)) AND
        C05090D=1
    THEN N30=1;
    ELSE IF (C05090A=1 OR C05090B=1 OR C05090C=1) THEN DO;
        N30=2;
    END;

```

```

C05090D=2;

IF C05091=. THEN C05091=.N;
ELSE C05091=.C;
END;
ELSE IF (C05090A IN (2,.) AND C05090B IN (2,.) AND
        C05090C IN (2,.) AND C05090D IN (2,.) ) THEN N30=3;

/** Note 31:  C05091, C05092:  Physical emotional development that
                may require care
**/

IF C05091 IN (.N, .C) THEN N31=1;
ELSE IF C05091=1 THEN N31=2;
ELSE IF C05091=2 THEN DO;
    N31=3;
    IF C05092=. THEN C05092=.N;
    ELSE C05092=.C;
END;
ELSE IF C05091=. THEN N31=4;

NOSURVEY:

/* missing values */

ARRAY MISS MISS_9 MISS_8 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1 ;
MISS_TOT=0;
DO OVER MISS;
    MISS=0;
END;
ARRAY MISSARRAY &VARLIST2;

DO OVER MISSARRAY;
    IF (MISSARRAY EQ -9 ) THEN MISS_9=MISS_9 + 1;
    ELSE IF (MISSARRAY EQ -8) THEN MISS_8=MISS_8 + 1;
    ELSE IF (MISSARRAY EQ -7) THEN MISS_7=MISS_7 + 1;
    ELSE IF (MISSARRAY EQ -6) THEN MISS_6=MISS_6 + 1;
    ELSE IF (MISSARRAY EQ -5) THEN MISS_5=MISS_5 + 1;
    ELSE IF (MISSARRAY EQ -4) THEN MISS_4=MISS_4 + 1;
    ELSE IF (MISSARRAY EQ -1) THEN MISS_1=MISS_1 + 1;
END;

DO OVER MISS;
    MISS_TOT=MISS_TOT + MISS;
END;

OUTPUT;

RUN;

PROC CONTENTS DATA=OUT.&OUTDATA;
RUN;

PROC MEANS DATA=OUT.&OUTDATA N NMISS MIN MAX SUM MEAN;
    WHERE FLAG_FIN=1;
    VAR MISS_TOT MISS_1 MISS_4 MISS_5 MISS_6-MISS_9;
    TITLE3 'Frequency Checks - Missing Value Totals';
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
    WHERE FLAG_FIN=1;
    TABLES &VARLIST1.

C05001      *C05001_O
C05002A     *C05002AO
C05002B     *C05002BO
C05002C     *C05002CO
C05002D     *C05002DO
C05002E     *C05002EO
C05002F     *C05002FO

```

C05002G	*C05002GO
C05002H	*C05002HO
C05002I	*C05002IO
C05003	*C05003_O
C05004	*C05004_O
C05005	*C05005_O
C05006	*C05006_O
C05007	*C05007_O
C05008	*C05008_O
C05009	*C05009_O
C05010	*C05010_O
C05011	*C05011_O
C05012	*C05012_O
C05013	*C05013_O
C05014	*C05014_O
C05015	*C05015_O
C05016	*C05016_O
C05017	*C05017_O
C05018	*C05018_O
C05019	*C05019_O
C05020	*C05020_O
C05021	*C05021_O
C05022	*C05022_O
C05023	*C05023_O
C05024	*C05024_O
C05025	*C05025_O
C05026	*C05026_O
C05027	*C05027_O
C05028	*C05028_O
C05029	*C05029_O
C05030	*C05030_O
C05031	*C05031_O
C05032	*C05032_O
C05033	*C05033_O
C05034	*C05034_O
C05035	*C05035_O
C05036	*C05036_O
C05037	*C05037_O
C05038	*C05038_O
C05039	*C05039_O
C05040	*C05040_O
C05041	*C05041_O
C05042	*C05042_O
C05043	*C05043_O
C05044	*C05044_O
C05045	*C05045_O
C05046	*C05046_O
C05047	*C05047_O
C05048	*C05048_O
C05049	*C05049_O
C05050	*C05050_O
C05051	*C05051_O
C05052	*C05052_O
C05053	*C05053_O
C05054	*C05054_O
C05055	*C05055_O
C05056	*C05056_O
C05057	*C05057_O
C05058	*C05058_O
C05059	*C05059_O
C05060	*C05060_O
C05061	*C05061_O
C05062	*C05062_O
C05063	*C05063_O
C05064	*C05064_O
C05065	*C05065_O
C05066	*C05066_O
C05067	*C05067_O
C05068	*C05068_O
C05069	*C05069_O
C05070	*C05070_O
C05071	*C05071_O
C05072	*C05072_O
C05073	*C05073_O

```

C05074      *C05074_O
C05075      *C05075_O
C05076      *C05076_O
C05077      *C05077_O
C05078      *C05078_O
C05079      *C05079_O
C05080      *C05080_O
C05081      *C05081_O
C05082      *C05082_O
C05083      *C05083_O
C05084      *C05084_O
C05085      *C05085_O
C05086      *C05086_O
C05087      *C05087_O
C05088      *C05088_O
C05089      *C05089_O
C05090A     *C05090AO
C05090B     *C05090BO
C05090C     *C05090CO
C05090D     *C05090DO
C05091      *C05091_O
C05092      *C05092_O
C05093F     *C05093FO
C05093I     *C05093IO
C05094      *C05094_O
C05095      *C05095_O
C05096      *C05096_O
C05097      *C05097_O
C05099      *C05099_O
C05100      *C05100_O
C05101      *C05101_O
C05102      *C05102_O
C05103      *C05103_O
C05104      *C05104_O
C05105      *C05105_O
C05106A     *C05106AO
C05106B     *C05106BO
C05106C     *C05106CO
C05106D     *C05106DO
C05106E     *C05106EO
C05107      *C05107_O
C05108      *C05108_O
C05109      *C05109_O
C05110      *C05110_O
C05111      *C05111_O

/MISSING LIST;
  TITLE3 'Frequency Checks - Formatted Response Variables';
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
  WHERE FLAG_FIN=1;
  TABLES N1-N31/MISSING;
  TITLE3 'Frequency Checks - Coding Scheme Notes';
RUN;

%MACRO GETFREQS (TABLES, NOTE);

  PROC FREQ DATA=OUT.&OUTDATA;
    WHERE FLAG_FIN=1;
    TABLES &TABLES/MISSING LIST;
    FORMAT _ALL_ ;
    TITLE3 "CODING SCHEME FOR NOTE &NOTE";
  RUN;

%MEND GETFREQS;

PROC FREQ DATA=IN.&INDATA;
  TABLES FLAG_FIN;
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
  TABLES FLAG_FIN;

```

RUN;

```
%GETFREQS(N1*C05006_O*C05007_O*C05008_O*C05006*C05007*C05008,1);
%GETFREQS(N2*C05008_O*C05009_O*C05008*C05009,2);
%GETFREQS(N3*C05011_O*C05012_O*C05013_O*C05011*C05012*C05013,3);
%GETFREQS(N4*C05014_O*C05015_O*C05016_O*C05017_O*C05014*C05015*C05016*C05017,4);
%GETFREQS(N5*C05018_O*C05019_O*C05018*C05019,5);
%GETFREQS(N6*C05020_O*C05021_O*C05022_O*C05020*C05021*C05022,6);
%GETFREQS(N7*C05023_O*C05024_O*C05023*C05024,7);
%GETFREQS(N8*C05025_O*C05026_O*C05025*C05026,8);
%GETFREQS(N9*C05027_O*C05028_O*C05027*C05028,9);
%GETFREQS(N10*C05030_O*C05031_O*C05032_O*C05033_O*C05034_O*C05035_O*C05036_O*C05030,10);
%GETFREQS(N11*C05031_O*C05032_O*C05031*C05032,11);
%GETFREQS(N12*C05033_O*C05033_O*C05033*C05034,12);
%GETFREQS(N13*C05041_O*C05042_O*C05041*C05042,13);
%GETFREQS(N14*C05044_O*C05045_O*C05046_O*C05047_O*C05044*C05045*C05046*C05047,14);
%GETFREQS(N15*C05048_O*C05049_O*C05048*C05049,15);
%GETFREQS(N16*C05051_O*C05052_O*C05053_O*C05051*C05052*C05053,16);
%GETFREQS(N17*C05054_O*C05055_O*C05056_O*C05054*C05055*C05056,17);
%GETFREQS(N18*C05057_O*C05058_O*C05059_O*C05057*C05058*C05059,18);
%GETFREQS(N19*C05060_O*C05061_O*C05062_O*C05060*C05061*C05062,19);
%GETFREQS(N20*C05063_O*C05064_O*C05063*C05064,20);
%GETFREQS(N21*C05065_O*C05066_O*C05065*C05066,21);
%GETFREQS(N22*C05067_O*C05068_O*C05067*C05068,22);
%GETFREQS(N23*C05069_O*C05070_O*C05069*C05070,23);
%GETFREQS(N24*C05072_O*C05073_O*C05074_O*C05072*C05073*C05074,24);
%GETFREQS(N25*C05076_O*C05077_O*C05078_O*C05076*C05077*C05078,25);
%GETFREQS(N26*C05079_O*C05080_O*C05081_O*C05079*C05080*C05081,26);
%GETFREQS(N27*C05082_O*C05083_O*C05084_O*C05082*C05083*C05084,27);
%GETFREQS(N28*C05085_O*C05086_O*C05087_O*C05085*C05086*C05087,28);
%GETFREQS(N29*C05088_O*C05089_O*C05088*C05089,29);
%GETFREQS(N30*C05090A*C05090B*C05090C*C05090D*C05091_O*C05090A*C05090B*C05090C*C05090D*C05091,30);
%GETFREQS(N31*C05091_O*C05092_O*C05091*C05092,31);
```

F.3 WEIGHTING\SELECTC.SAS - CREATE RECORD SELECTION FLAG FOR RECORD SELECTION.

```

*****
*
* PROGRAM:   SELECTC.SAS
* TASK:      2004 CHILD DOD HEALTH CARE SURVEY ANALYSIS (6077-220)
* PURPOSE:   ASSIGN FINAL STATUS FOR RECORD SELECTION PURPOSES.
* WRITTEN:   12/14/2000 BY KEITH RATHBUN
*
* MODIFIED:  1) 08/31/2001 BY KEITH RATHBUN, Adapted from the Adult 2000
*             quarterly version to accomodate the Child Q3 2000 survey.
*             2) 09/16/2002 BY KEITH RATHBUN, Updated for Child Q3
*             2002 Survey. Added FLAG_FIN = 23,24 for FNSTATUS = 20.
*             3) 09/18/2003 BY KEITH RATHBUN, Updated for Child Q3
*             2003 Survey.
*             4) 09/17/2004 BY KEITH RATHBUN, Updated for Child Q3
*             2004 Survey.
*             5) 09/23/2004 BY KEITH RATHBUN, Added code to assign flag_fin
*             for ineligibles (determined by STI) at time of address update
*             prior to fielding using the CDead.sd2 file.
*
* INPUTS:    1) CSCHM05C.SD2 - 2005 Q3 Child DOD Health Survey Data
*
* OUTPUTS:   1) SELECTC.SD2 - 2005 Q3 Child DOD Health Survey Data w/FNSTATUS
*
*****
*
LIBNAME IN      v612  "..\..\DATA\CFINAL";
LIBNAME OUT     v612  "..\..\DATA\CFINAL";
LIBNAME LIBRARY v612  "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

PROC SORT DATA=IN.CSCHM05C OUT=TEMPC1; BY MPRID; RUN;

DATA TEMPC2 OUT.DUPSC;
  SET TEMPC1;
  BY MPRID;
  *****
  * Count key variables (Total=23), 50% rule = GE 12
  *****
  ARRAY KEYVAR C05003 C05004 C05005 C05006 C05014 C05018
               C05023 C05025 C05027
               C05029 C05030 C05065
               C05067 C05069 C05071 C05075 C05104 C05105
               C05107 C05108 C05109 C05111
  ;
  KEYCOUNT = 0;
  DO I = 1 TO DIM(KEYVAR); DROP I;
    IF KEYVAR(I) NOT IN (.,.A.,.O.,.I.,.B) THEN KEYCOUNT = KEYCOUNT + 1;
  END;
  *****
  * Count question 106 (Child's Race) - multiple response item.
  *****
  IF C05106A NOT IN (.,.A.,.O.,.I.,.B) OR
     C05106B NOT IN (.,.A.,.O.,.I.,.B) OR
     C05106C NOT IN (.,.A.,.O.,.I.,.B) OR
     C05106D NOT IN (.,.A.,.O.,.I.,.B) OR
     C05106E NOT IN (.,.A.,.O.,.I.,.B) THEN KEYCOUNT + 1;

  *****
  * Set flag for duplicates
  *****
  LENGTH DUPFLAG $3;
  DUPFLAG = 'NO';
  IF NOT (FIRST.MPRID AND LAST.MPRID) THEN DUPFLAG = 'YES';

  *****
  * Determine final status (FNSTATUS)
  *****
  FNSTATUS = 0;
  IF FLAG_FIN = 1 THEN DO;
    *****

```

```

**** APPLY THE COMPLETE QUESTIONNAIRE RULE (50% OF KEY ****
**** VARIABLES). ****
*****;
IF KEYCOUNT GE 12 THEN FNSTATUS = 11;
ELSE FNSTATUS = 12;
END;
ELSE IF FLAG_FIN IN(3,6,8,10,11,14,16,21,23,24) THEN DO;
    FNSTATUS = 20;
END;
ELSE IF FLAG_FIN IN(2,4,5,7,12,13,15) THEN DO;
    FNSTATUS = 31;
END;
ELSE IF FLAG_FIN IN (25,26) THEN DO;
    FNSTATUS = 32;
END;
ELSE IF FLAG_FIN IN(9,17,18,19,20,22) THEN DO;
    IF FLAG_FIN IN (18,19,20) THEN DO;
        FNSTATUS = 42;
    END;
    ELSE DO;
        FNSTATUS = 41;
    END;
END;

IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSC;
ELSE OUTPUT TEMPC2;
RUN;

*****
* Select the "most complete" questionnaire from duplicates and
* SET it back into the non-duplicates file. For now assume the lowest
* FNSTATUS Value is the "most complete".
*****
;
PROC SORT DATA=OUT.DUPSC;
    BY MPRID FNSTATUS;
RUN;

DATA DEDUPED;
    SET OUT.DUPSC;
    BY MPRID FNSTATUS;
    IF FIRST.MPRID; *KEEP only the first - most complete questionnaire;
RUN;

DATA OUT.SELECTC;
    SET TEMPC2 DEDUPED;

    LABEL FNSTATUS = "Final Status"
           DUPFLAG = "Multiple Response Indicator"
           STRATUM = "Sampling STRATUM"
           KEYCOUNT = "# Key Questions Answered (Out of 23)"
           ;
RUN;

TITLE1 "2005 Child DOD Health Care Survey Analysis (6077-220)";
TITLE2 "Program Name: SELECTC.SAS By Keith Rathbun";
TITLE3 "Program Output: SELECTC.SD2";

PROC CONTENTS DATA=OUT.SELECTC; RUN;

PROC FREQ DATA=OUT.SELECTC;
TABLES FNSTATUS KEYCOUNT FLAG_FIN
       FNSTATUS*KEYCOUNT*FLAG_FIN
       /MISSING LIST;
RUN;

```

F.4 WEIGHTING\UNFIELDDED.SAS - IDENTIFY RECORDS NOT FIELDDED.

```
*****
*
* PROGRAM: UNFIELDDED.SAS
* TASK: 2005 CHILD DOD HEALTH CARE SURVEY ANALYSIS (6077-220)
* PURPOSE: DETERMINE WHICH RECORDS FROM THE SAMPLE FILE WERE NOT
* INCLUDED IN THE SELECTC FILE, IDENTIFY THESE WITH FNSTATUS=41
* AND INCLUDE THEM INTO NEW SELECTC2 FILE.
*
* WRITTEN: 12/13/2005 BY REGINA GRAMSS
*
* MODIFIED:
*
* INPUTS: 1) SELECTC.SD2 - 2005 Q3 Child DOD Health Survey Data
*          2) SAMPLC01.SD2 - 2005 Q3 Child Sample Data
*
* OUTPUTS: 1) SELECTC2.SD2 - 2005 Q3 Child DOD Health Survey Data w/FNSTATUS
*
*****;

LIBNAME IN v612 "..\..\DATA\CFINAL";
LIBNAME OUT v612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY v612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 NOCENTER;

DATA SAMPLE;
SET IN.SAMPLC01;
KEEP MPRID AGESMPL BWT DAGEQY DHSRGN ENBGSMPL ENLSMPL PCM SEXSMPL STRATUM
TNEXREG TNEXSMP;
RUN;

DATA SELECT;
SET IN.SELECTC;
KEEP MPRID;

PROC SORT DATA=SAMPLE;
BY MPRID;
PROC SORT DATA=SELECT;
BY MPRID;

DATA UNFIELDDED;
MERGE SELECT (IN=A) SAMPLE (IN=B);
BY MPRID;
FNSTATUS=43;
FIELDDED = 0;
IF B AND NOT A;
RUN;

DATA OUT.SELECTC2;
SET IN.SELECTC UNFIELDDED;
IF FIELDDED NE 0 THEN FIELDDED = 1;
RUN;

PROC SORT DATA=OUT.SELECTC2;
BY STRATUM;

PROC FREQ DATA=OUT.SELECTC2 NOPRINT;
BY STRATUM;
TABLE FIELDDED / OUT=CROSS ;
RUN;

*PROC PRINT DATA=CROSS;
*RUN;

PROC FREQ DATA=OUT.SELECTC2 NOPRINT;
WHERE STRATUM IN ('121','221','321') AND FNSTATUS = 11;
BY STRATUM;
TABLES FIELDDED*DAGEQY / LIST MISSING OUT=CROSS2;
TITLE 'WHERE STRATUM IS 121 OR 221 OR 321 AND FNSTATUS = 11';
RUN;
```

```
PROC PRINT DATA=CROSS2;  
RUN;
```

F.5 CONSTRUCT\CREATBMLSAS - CREATE BMI VALUES.

```

*****
*
* PROGRAM:   CREATBMI.SAS
* TASK:      QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE:   CALCULATES CHILD BMI VALUES.
* WRITTEN:   11/14/2004 BY REBECCA NYMAN
*
* MODIFIED:  1) 12/06/2004 BY JACQUELINE AGUFA-MALOPA, Updated to run on DOD
*             computer.
*             2) 12/27/05 BY LUCY LU. UPDATED FOR Q4 2005 CHILD CONSTRUCT PROGRAM
*
* INPUTS:    1) SELECTC.SD2 - 2005 Q Child DOD Health Survey Data w/FNSTATUS
*             2) SAMPLC02.SD2 - Child (Q) Sample file
*
* OUTPUTS:   1) CREATBMI.SD2 - 2005 Q Child BMI values
*
*****
* ;
LIBNAME IN      V612 "..\..\DATA\CFINAL";
LIBNAME OUT     V612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT SOURCE2;

Proc Format;
  Value Sex
    1 = 'Male'
    2 = 'Female';

  Value over
    4 = 'overweight'
    3 = 'at-risk'
    2 = 'normal'
    1 = 'underweight';

  value exclude
    1 = 'plausible'
    2 = 'not plausible';
run;

PROC SORT DATA=IN.SELECTC OUT=SELECTC; BY MPRID; RUN;
PROC SORT DATA=IN.SAMPLC02 OUT=SAMPLC02(KEEP=MPRID PNBRTHTDT); BY MPRID; RUN;

DATA BMIINPUT;
  MERGE SAMPLC02 (in=SMP)
        SELECTC  (in=DAT)
        ;
  BY MPRID;

  IF DAT AND SMP;
RUN;

data bmiInput2 ;
  set BMIINPUT;
  fieldate='01jul2005'd;
  year = INPUT(substr (PNBRTHTDT,1,4),4.);
  month = INPUT(substr (PNBRTHTDT,5,2),2.);
  day = INPUT(substr (PNBRTHTDT,7,2),2.);
  newbday = MDY (month, day, year);

  /*The following variables must be named as such in order for the
  gc-calculate program to run*****/

  agemos = intck ('month', newbday, fieldate)
    - (day(fieldate) < day(newbday));

  if C05104 = 1 then sex = 1;
  else if C05104 = 2 then sex = 2;

```

```

IF C05093F IN (.O) THEN C05093F = .;
IF C05093I IN (.O) THEN C05093I = .;
IF C05094 IN (.O) THEN C05094 = .;

height = ((C05093F*12)+ C05093I)* 2.54; /*Height in cenimeters*/

recumbnt = 0;

weight = C05094 * .4536; /*Weight in Kilograms*/

headcir = .;

format fieldate mmddyy8.;
run;

/*This is the CDC's program titled "gc-setup.sas", which can be downloaded on their web site.
It must be run with "gc-calculate.sas", which can also be downloaded at
http://www.cdc.gov/nccdphp/dnpa/growthcharts/sas.htm*/

%let datalib="..\..\DATA\CFINAL";  **** Subdirectory for your existing dataset;
%let datain=bmiINPUT2;           **** The name of your existing SAS dataset;
%let dataout=cdctest;           **** The name of the dataset you wish to put
                                the results into;
%let saspgm='..\..\..\Q3_2005\Programs\Construct\gc-calculate.sas';
                                **** Subdirectory for the downloaded program
                                gc-calculate.sas;

*Libname mydata &datalib;

data _INDATA; set &datain;
%include &saspgm;

data &dataout; set _INDATA;

DATA OUT.CREATBMI (KEEP=MPRID BMIPCT OVER EXCLUDE);
SET cdctest;

/*notes if z scores are plausible values*/
exclude = 1; /*Any exlude GE 2 are implausible values*/
if C05093F IN (.O,.) or C05093I IN (.O,.) or C05094 IN (.O,.) then exclude = 2; /*height/wieght
values*/
else if bmiz lt -4 or bmiz gt 5 then exclude = 3; /*bmi*/
else if waz lt -5 or waz gt 3 then exclude = 4; /*weight for age*/
else if haz lt - 5 or haz gt 3 then exclude = 5; /*height for age*/

/*categorizes BMI*/

IF exclude EQ 1 THEN DO;
  if BMIPCT ge 95 then over = 4;
  else if 85 le BMIPCT lt 95 then over = 3;
  else if 5 lt BMIPCT lt 85 then over = 2;
  else if 0 le BMIPCT le 5 then over = 1;
END;

PROC FREQ;
  TABLES EXCLUDE*OVER*BMIPCT
    / MISSPRINT LIST;
TITLE 'CHECK MISSING OVER (XBMICAT)';
format exclude exclude. OVER over. ;
run;

```

F.6 CONSTRUCT\GC-CALCULATE.SAS - CALCULATE BMI VALUES.

```

**** THIS SAS PROGRAM IS FOR THE CALCULATION OF
PERCENTILES AND Z-SCORES BASED ON THE CDC
GROWTH REFERENCE YEAR 2000 ****;

IF AGEMOS GE 0 AND AGEMOS LT 0.5 THEN _AGECAT=0;
ELSE _AGECAT=INT(AGEMOS+0.5)-0.5;

IF RECUMBNT=1 THEN DO;
  LENGTH=HEIGHT;
  STATURE=.;
END;
ELSE IF RECUMBNT=0 THEN DO;
  STATURE=HEIGHT;
  LENGTH=.;
END;
ELSE IF RECUMBNT=. THEN DO;
  IF AGEMOS NE . THEN DO;
    IF AGEMOS LT 24 THEN DO;
      LENGTH=HEIGHT;
      STATURE=.;
    END;
    ELSE IF AGEMOS GE 24 THEN DO;
      STATURE=HEIGHT;
      LENGTH=.;
    END;
  END;
  ELSE DO;
    IF HEIGHT LT 85 THEN DO;
      LENGTH=HEIGHT;
      STATURE=.;
    END;
    ELSE IF HEIGHT GE 85 THEN DO;
      STATURE=HEIGHT;
      LENGTH=.;
    END;
  END;
END;

IF WEIGHT=. OR STATURE IN (.,0) THEN BMI=.;
ELSE BMI=WEIGHT/(STATURE/100)**2;
_ID=_N_;

DATA _INDATA1; SET _INDATA;
PROC SORT DATA=_INDATA1; BY SEX _AGECAT _ID;

DATA _INDATA2; SET _INDATA;
IF LENGTH=. THEN _HTCAT=.;
ELSE IF LENGTH GE 45 AND LENGTH LT 45.5 THEN _HTCAT=45;
ELSE _HTCAT=INT(LENGTH+0.5)-0.5;
PROC SORT DATA=_INDATA2; BY SEX _HTCAT _ID;

DATA _INDATA3; SET _INDATA;
IF STATURE=. THEN _HTCAT=.;
ELSE IF STATURE GE 77 AND STATURE LT 77.5 THEN _HTCAT=77;
ELSE _HTCAT=INT(STATURE+0.5)-0.5;
PROC SORT DATA=_INDATA3; BY SEX _HTCAT _ID;

DATA LGFAGE; **DATA FILE FOR LENGTH-FOR-AGE;
INFILE CARDS PAD;
INPUT SEX _AGEMOS1 _LLG1 _MLG1 _SLG1 _AGEMOS2 _LLG2 _MLG2 _SLG2;
CARDS;
1      0.0      1.267004226      49.988884080      0.053112191      0.5      0.511237696
52.695975300      0.048692684
1      0.5      0.511237696      52.695975300      0.048692684      1.5      -0.452244460
56.628428550      0.044116830
1      1.5      -0.452244460      56.628428550      0.044116830      2.5      -0.990594599
59.608953430      0.041795583
1      2.5      -0.990594599      59.608953430      0.041795583      3.5      -1.285837689
62.077000270      0.040454126

```

1	3.5	-1.285837689	62.077000270	0.040454126	4.5	-1.430312380
64.216864100		0.039633879				
1	4.5	-1.430312380	64.216864100	0.039633879	5.5	-1.476575470
66.125314900		0.039123813				
1	5.5	-1.476575470	66.125314900	0.039123813	6.5	-1.456837849
67.860179900		0.038811994				
1	6.5	-1.456837849	67.860179900	0.038811994	7.5	-1.391898768
69.459084580		0.038633209				
1	7.5	-1.391898768	69.459084580	0.038633209	8.5	-1.295714590
70.948039120		0.038546833				
1	8.5	-1.295714590	70.948039120	0.038546833	9.5	-1.177919048
72.345861110		0.038526262				
1	9.5	-1.177919048	72.345861110	0.038526262	10.5	-1.045326049
73.666654100		0.038553387				
1	10.5	-1.045326049	73.666654100	0.038553387	11.5	-0.902800887
74.921297170		0.038615501				
1	11.5	-0.902800887	74.921297170	0.038615501	12.5	-0.753908107
76.118375360		0.038703461				
1	12.5	-0.753908107	76.118375360	0.038703461	13.5	-0.601263523
77.264799110		0.038810557				
1	13.5	-0.601263523	77.264799110	0.038810557	14.5	-0.446805039
78.366223090		0.038931784				
1	14.5	-0.446805039	78.366223090	0.038931784	15.5	-0.291974772
79.427340500		0.039063356				
1	15.5	-0.291974772	79.427340500	0.039063356	16.5	-0.137847670
80.452094920		0.039202382				
1	16.5	-0.137847670	80.452094920	0.039202382	17.5	0.014776155
81.443836030		0.039346629				
1	17.5	0.014776155	81.443836030	0.039346629	18.5	0.165304169
82.405436430		0.039494365				
1	18.5	0.165304169	82.405436430	0.039494365	19.5	0.313301809
83.339380630		0.039644238				
1	19.5	0.313301809	83.339380630	0.039644238	20.5	0.458455471
84.247833940		0.039795189				
1	20.5	0.458455471	84.247833940	0.039795189	21.5	0.600544631
85.132696580		0.039946388				
1	21.5	0.600544631	85.132696580	0.039946388	22.5	0.739438953
85.995648800		0.040097181				
1	22.5	0.739438953	85.995648800	0.040097181	23.5	0.875000447
86.838175100		0.040247060				
1	23.5	0.875000447	86.838175100	0.040247060	24.5	1.007208070
87.661609340		0.040395626				
1	24.5	1.007208070	87.661609340	0.040395626	25.5	0.837251351
88.452472820		0.040577525				
1	25.5	0.837251351	88.452472820	0.040577525	26.5	0.681492975
89.223264340		0.040723122				
1	26.5	0.681492975	89.223264340	0.040723122	27.5	0.538779654
89.975492280		0.040833194				
1	27.5	0.538779654	89.975492280	0.040833194	28.5	0.407697153
90.710408530		0.040909059				
1	28.5	0.407697153	90.710408530	0.040909059	29.5	0.286762453
91.429077620		0.040952433				
1	29.5	0.286762453	91.429077620	0.040952433	30.5	0.174489485
92.132423790		0.040965330				
1	30.5	0.174489485	92.132423790	0.040965330	31.5	0.069444521
92.821271670		0.040949976				
1	31.5	0.069444521	92.821271670	0.040949976	32.5	-0.029720564
93.496379460		0.040908737				
1	32.5	-0.029720564	93.496379460	0.040908737	33.5	-0.124251789
94.158465460		0.040844062				
1	33.5	-0.124251789	94.158465460	0.040844062	34.5	-0.215288396
94.808229230		0.040758431				
1	34.5	-0.215288396	94.808229230	0.040758431	35.5	-0.303854340
95.446369810		0.040654312				
1	35.5	-0.303854340	95.446369810	0.040654312	36.5	-0.390918369
96.073591060		0.040534120				
2	0.0	-1.295960857	49.286396120	0.050085560	0.5	-0.809249882
51.683580570		0.046818545				
2	0.5	-0.809249882	51.683580570	0.046818545	1.5	-0.050782985
55.286128130		0.043443900				
2	1.5	-0.050782985	55.286128130	0.043443900	2.5	0.476851407
58.093819060		0.041716103				
2	2.5	0.476851407	58.093819060	0.041716103	3.5	0.843299612
60.459807630		0.040705173				

2	3.5	0.843299612	60.459807630	0.040705173	4.5	1.097562257
62.536696560		0.040079765				
2	4.5	1.097562257	62.536696560	0.040079765	5.5	1.272509641
64.406327620		0.039686845				
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2	13.5	1.490765028	75.557854400	0.039459832	14.5	1.460458255
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2	16.5	1.388507095	78.801984060	0.039794010	17.5	1.348818127
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DATA HTFAGE;  **DATA FILE FOR STATURE-FOR-AGE;
INFILE CARDS PAD;
INPUT SEX _AGEMOS1 _LHT1 _MHT1 _SHT1 _AGEMOS2 _LHT2 _MHT2 _SHT2;
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145.909678400		0.049403145				
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146.366527800		0.049488934				
1	138.5	0.434576385	146.366527800	0.049488934	139.5	0.427302633
146.831951300		0.049572216				
1	139.5	0.427302633	146.831951300	0.049572216	140.5	0.421464027
147.306592900		0.049652935				
1	140.5	0.421464027	147.306592900	0.049652935	141.5	0.417477538
147.791063500		0.049731004				
1	141.5	0.417477538	147.791063500	0.049731004	142.5	0.415771438
148.285929400		0.049806300				
1	142.5	0.415771438	148.285929400	0.049806300	143.5	0.416777012
148.791700600		0.049878650				
1	143.5	0.416777012	148.791700600	0.049878650	144.5	0.420919142
149.308817800		0.049947823				
1	144.5	0.420919142	149.308817800	0.049947823	145.5	0.428606007
149.837639100		0.050013518				
1	145.5	0.428606007	149.837639100	0.050013518	146.5	0.440218167
150.378426700		0.050075353				
1	146.5	0.440218167	150.378426700	0.050075353	147.5	0.456097443
150.931333100		0.050132858				
1	147.5	0.456097443	150.931333100	0.050132858	148.5	0.476536014
151.496388700		0.050185471				
1	148.5	0.476536014	151.496388700	0.050185471	149.5	0.501766234
152.073489700		0.050232532				
1	149.5	0.501766234	152.073489700	0.050232532	150.5	0.531951655
152.662387800		0.050273285				
1	150.5	0.531951655	152.662387800	0.050273285	151.5	0.567179725
153.262681900		0.050306885				
1	151.5	0.567179725	153.262681900	0.050306885	152.5	0.607456565
153.873812400		0.050332406				
1	152.5	0.607456565	153.873812400	0.050332406	153.5	0.652704121
154.495058000		0.050348860				
1	153.5	0.652704121	154.495058000	0.050348860	154.5	0.702759868
155.125536500		0.050355216				
1	154.5	0.702759868	155.125536500	0.050355216	155.5	0.757379106
155.764208600		0.050350423				
1	155.5	0.757379106	155.764208600	0.050350423	156.5	0.816239713
156.409885800		0.050333444				
1	156.5	0.816239713	156.409885800	0.050333444	157.5	0.878947416
157.061241500		0.050303283				
1	157.5	0.878947416	157.061241500	0.050303283	158.5	0.945053486
157.716828900		0.050259018				
1	158.5	0.945053486	157.716828900	0.050259018	159.5	1.014046108
158.375092900		0.050199837				
1	159.5	1.014046108	158.375092900	0.050199837	160.5	1.085383319
159.034399000		0.050125062				
1	160.5	1.085383319	159.034399000	0.050125062	161.5	1.158487278
159.693050100		0.050034180				
1	161.5	1.158487278	159.693050100	0.050034180	162.5	1.232768816
160.349316800		0.049926861				
1	162.5	1.232768816	160.349316800	0.049926861	163.5	1.307628899
161.001458600		0.049802977				
1	163.5	1.307628899	161.001458600	0.049802977	164.5	1.382473225
161.647751500		0.049662610				
1	164.5	1.382473225	161.647751500	0.049662610	165.5	1.456720479
162.286511900		0.049506051				
1	165.5	1.456720479	162.286511900	0.049506051	166.5	1.529810247
162.916120200		0.049333801				
1	166.5	1.529810247	162.916120200	0.049333801	167.5	1.601219573
163.535045000		0.049146553				
1	167.5	1.601219573	163.535045000	0.049146553	168.5	1.670433444
164.141848600		0.048945190				
1	168.5	1.670433444	164.141848600	0.048945190	169.5	1.736995571
164.735219900		0.048730749				
1	169.5	1.736995571	164.735219900	0.048730749	170.5	1.800483802
165.313975500		0.048504404				
1	170.5	1.800483802	165.313975500	0.048504404	171.5	1.860518777
165.877071500		0.048267442				
1	171.5	1.860518777	165.877071500	0.048267442	172.5	1.916765525
166.423608700		0.048021230				

1	172.5	1.916765525	166.423608700	0.048021230	173.5	1.968934444
166.952835400	0.047767192					
1	173.5	1.968934444	166.952835400	0.047767192	174.5	2.016781776
167.464146600	0.047506783					
1	174.5	2.016781776	167.464146600	0.047506783	175.5	2.060109658
167.957081400	0.047241456					
1	175.5	2.060109658	167.957081400	0.047241456	176.5	2.098765817
168.431317500	0.046972650					
1	176.5	2.098765817	168.431317500	0.046972650	177.5	2.132642948
168.886664400	0.046701759					
1	177.5	2.132642948	168.886664400	0.046701759	178.5	2.161677790
169.323054800	0.046430122					
1	178.5	2.161677790	169.323054800	0.046430122	179.5	2.185849904
169.740535100	0.046159004					
1	179.5	2.185849904	169.740535100	0.046159004	180.5	2.205180153
170.139255000	0.045889585					
1	180.5	2.205180153	170.139255000	0.045889585	181.5	2.219728869
170.519456700	0.045622955					
1	181.5	2.219728869	170.519456700	0.045622955	182.5	2.229593700
170.881464000	0.045360101					
1	182.5	2.229593700	170.881464000	0.045360101	183.5	2.234907144
171.225671700	0.045101913					
1	183.5	2.234907144	171.225671700	0.045101913	184.5	2.235833767
171.552534500	0.044849174					
1	184.5	2.235833767	171.552534500	0.044849174	185.5	2.232567138
171.862557600	0.044602566					
1	185.5	2.232567138	171.862557600	0.044602566	186.5	2.225326500
172.156286500	0.044362674					
1	186.5	2.225326500	172.156286500	0.044362674	187.5	2.214353232
172.434298300	0.044129985					
1	187.5	2.214353232	172.434298300	0.044129985	188.5	2.199905902
172.697193500	0.043904897					
1	188.5	2.199905902	172.697193500	0.043904897	189.5	2.182262864
172.945589800	0.043687723					
1	189.5	2.182262864	172.945589800	0.043687723	190.5	2.161704969
173.180112000	0.043478698					
1	190.5	2.161704969	173.180112000	0.043478698	191.5	2.138524662
173.401389600	0.043277987					
1	191.5	2.138524662	173.401389600	0.043277987	192.5	2.113023423
173.610051800	0.043085685					
1	192.5	2.113023423	173.610051800	0.043085685	193.5	2.085490286
173.806717900	0.042901835					
1	193.5	2.085490286	173.806717900	0.042901835	194.5	2.056219500
173.991999800	0.042726424					
1	194.5	2.056219500	173.991999800	0.042726424	195.5	2.025496648
174.166495100	0.042559396					
1	195.5	2.025496648	174.166495100	0.042559396	196.5	1.993598182
174.330785500	0.042400652					
1	196.5	1.993598182	174.330785500	0.042400652	197.5	1.960789092
174.485434400	0.042250063					
1	197.5	1.960789092	174.485434400	0.042250063	198.5	1.927320937
174.630985600	0.042107465					
1	198.5	1.927320937	174.630985600	0.042107465	199.5	1.893430240
174.767961700	0.041972676					
1	199.5	1.893430240	174.767961700	0.041972676	200.5	1.859337259
174.896863400	0.041845488					
1	200.5	1.859337259	174.896863400	0.041845488	201.5	1.825245107
175.018169100	0.041725679					
1	201.5	1.825245107	175.018169100	0.041725679	202.5	1.791339209
175.132334500	0.041613015					
1	202.5	1.791339209	175.132334500	0.041613015	203.5	1.757787065
175.239792600	0.041507249					
1	203.5	1.757787065	175.239792600	0.041507249	204.5	1.724738292
175.340954000	0.041408129					
1	204.5	1.724738292	175.340954000	0.041408129	205.5	1.692324905
175.436207100	0.041315398					
1	205.5	1.692324905	175.436207100	0.041315398	206.5	1.660661815
175.525919100	0.041228796					
1	206.5	1.660661815	175.525919100	0.041228796	207.5	1.629847495
175.610435800	0.041148060					
1	207.5	1.629847495	175.610435800	0.041148060	208.5	1.599964788
175.690083000	0.041072931					
1	208.5	1.599964788	175.690083000	0.041072931	209.5	1.571081817
175.765167100	0.041003150					

1	209.5	1.571081817	175.765167100	0.041003150	210.5	1.543252982
175.835975700		0.040938463				
1	210.5	1.543252982	175.835975700	0.040938463	211.5	1.516519998
175.902778800		0.040878617				
1	211.5	1.516519998	175.902778800	0.040878617	212.5	1.490912963
175.965829300		0.040823368				
1	212.5	1.490912963	175.965829300	0.040823368	213.5	1.466451429
176.025364100		0.040772475				
1	213.5	1.466451429	176.025364100	0.040772475	214.5	1.443145460
176.081605000		0.040725706				
1	214.5	1.443145460	176.081605000	0.040725706	215.5	1.420996665
176.134759300		0.040682834				
1	215.5	1.420996665	176.134759300	0.040682834	216.5	1.399999187
176.185020800		0.040643640				
1	216.5	1.399999187	176.185020800	0.040643640	217.5	1.380140651
176.232570700		0.040607913				
1	217.5	1.380140651	176.232570700	0.040607913	218.5	1.361403047
176.277578100		0.040575448				
1	218.5	1.361403047	176.277578100	0.040575448	219.5	1.343763564
176.320200800		0.040546051				
1	219.5	1.343763564	176.320200800	0.040546051	220.5	1.327195355
176.360586400		0.040519532				
1	220.5	1.327195355	176.360586400	0.040519532	221.5	1.311668242
176.398872500		0.040495713				
1	221.5	1.311668242	176.398872500	0.040495713	222.5	1.297149359
176.435187400		0.040474421				
1	222.5	1.297149359	176.435187400	0.040474421	223.5	1.283603728
176.469651000		0.040455493				
1	223.5	1.283603728	176.469651000	0.040455493	224.5	1.270994782
176.502375100		0.040438773				
1	224.5	1.270994782	176.502375100	0.040438773	225.5	1.259284830
176.533464000		0.040424111				
1	225.5	1.259284830	176.533464000	0.040424111	226.5	1.248435461
176.563015300		0.040411366				
1	226.5	1.248435461	176.563015300	0.040411366	227.5	1.238407910
176.591119700		0.040400405				
1	227.5	1.238407910	176.591119700	0.040400405	228.5	1.229163362
176.617862100		0.040391101				
1	228.5	1.229163362	176.617862100	0.040391101	229.5	1.220663228
176.643321900		0.040383334				
1	229.5	1.220663228	176.643321900	0.040383334	230.5	1.212869374
176.667572900		0.040376990				
1	230.5	1.212869374	176.667572900	0.040376990	231.5	1.205744310
176.690684400		0.040371962				
1	231.5	1.205744310	176.690684400	0.040371962	232.5	1.199251356
176.712721000		0.040368149				
1	232.5	1.199251356	176.712721000	0.040368149	233.5	1.193354770
176.733743000		0.040365456				
1	233.5	1.193354770	176.733743000	0.040365456	234.5	1.188019859
176.753807000		0.040363795				
1	234.5	1.188019859	176.753807000	0.040363795	235.5	1.183213059
176.772965700		0.040363080				
1	235.5	1.183213059	176.772965700	0.040363080	236.5	1.178901998
176.791268700		0.040363233				
1	236.5	1.178901998	176.791268700	0.040363233	237.5	1.175055543
176.808762200		0.040364179				
1	237.5	1.175055543	176.808762200	0.040364179	238.5	1.171643828
176.825489500		0.040365850				
1	238.5	1.171643828	176.825489500	0.040365850	239.5	1.168638270
176.841491400		0.040368180				
1	239.5	1.168638270	176.841491400	0.040368180	240.0	1.167279219
176.849232200		0.040369574				
2	23.5	1.093625008	84.553793340	0.040723061	24.5	1.051272912
85.397316900		0.040859727				
2	24.5	1.051272912	85.397316900	0.040859727	25.5	1.041951175
86.290263180		0.041142161				
2	25.5	1.041951175	86.290263180	0.041142161	26.5	1.012592236
87.157141820		0.041349399				
2	26.5	1.012592236	87.157141820	0.041349399	27.5	0.970541909
87.996018400		0.041500428				
2	27.5	0.970541909	87.996018400	0.041500428	28.5	0.921129988
88.805511500		0.041610508				
2	28.5	0.921129988	88.805511500	0.041610508	29.5	0.868221392
89.584766890		0.041691761				

2	29.5	0.868221392	89.584766890	0.041691761	30.5	0.814544130
90.333417220		0.041753680				
2	30.5	0.814544130	90.333417220	0.041753680	31.5	0.761957977
91.051543600		0.041803562				
2	31.5	0.761957977	91.051543600	0.041803562	32.5	0.711660228
91.739635200		0.041846882				
2	32.5	0.711660228	91.739635200	0.041846882	33.5	0.664323379
92.398544290		0.041887626				
2	33.5	0.664323379	92.398544290	0.041887626	34.5	0.620285102
93.029453920		0.041928568				
2	34.5	0.620285102	93.029453920	0.041928568	35.5	0.579556310
93.633822780		0.041971514				
2	35.5	0.579556310	93.633822780	0.041971514	36.5	0.541980940
94.213357090		0.042017509				
2	36.5	0.541980940	94.213357090	0.042017509	37.5	0.511429832
94.796432390		0.042104522				
2	37.5	0.511429832	94.796432390	0.042104522	38.5	0.482799937
95.373919180		0.042199507				
2	38.5	0.482799937	95.373919180	0.042199507	39.5	0.455521041
95.946926770		0.042300333				
2	39.5	0.455521041	95.946926770	0.042300333	40.5	0.429150288
96.516449120		0.042405225				
2	40.5	0.429150288	96.516449120	0.042405225	41.5	0.403351725
97.083372110		0.042512706				
2	41.5	0.403351725	97.083372110	0.042512706	42.5	0.377878239
97.648480700		0.042621565				
2	42.5	0.377878239	97.648480700	0.042621565	43.5	0.352555862
98.212465790		0.042730809				
2	43.5	0.352555862	98.212465790	0.042730809	44.5	0.327270297
98.775930690		0.042839638				
2	44.5	0.327270297	98.775930690	0.042839638	45.5	0.301955463
99.339397350		0.042947412				
2	45.5	0.301955463	99.339397350	0.042947412	46.5	0.276583851
99.903312200		0.043053626				
2	46.5	0.276583851	99.903312200	0.043053626	47.5	0.251158446
100.468051600		0.043157889				
2	47.5	0.251158446	100.468051600	0.043157889	48.5	0.225705996
101.033927000		0.043259907				
2	48.5	0.225705996	101.033927000	0.043259907	49.5	0.200271450
101.601189800		0.043359463				
2	49.5	0.200271450	101.601189800	0.043359463	50.5	0.174913356
102.170035800		0.043456406				
2	50.5	0.174913356	102.170035800	0.043456406	51.5	0.149700081
102.740609400		0.043550638				
2	51.5	0.149700081	102.740609400	0.043550638	52.5	0.124706710
103.313007700		0.043642107				
2	52.5	0.124706710	103.313007700	0.043642107	53.5	0.100012514
103.887283900		0.043730791				
2	53.5	0.100012514	103.887283900	0.043730791	54.5	0.075698881
104.463451100		0.043816701				
2	54.5	0.075698881	104.463451100	0.043816701	55.5	0.051847635
105.041485300		0.043899867				
2	55.5	0.051847635	105.041485300	0.043899867	56.5	0.028539670
105.621328700		0.043980337				
2	56.5	0.028539670	105.621328700	0.043980337	57.5	0.005853853
106.202892100		0.044058171				
2	57.5	0.005853853	106.202892100	0.044058171	58.5	-0.016133871
106.786058300		0.044133440				
2	58.5	-0.016133871	106.786058300	0.044133440	59.5	-0.037351181
107.370684100		0.044206218				
2	59.5	-0.037351181	107.370684100	0.044206218	60.5	-0.057729947
107.956603100		0.044276588				
2	60.5	-0.057729947	107.956603100	0.044276588	61.5	-0.077206672
108.543627800		0.044344632				
2	61.5	-0.077206672	108.543627800	0.044344632	62.5	-0.095722830
109.131552100		0.044410436				
2	62.5	-0.095722830	109.131552100	0.044410436	63.5	-0.113225128
109.720153100		0.044474084				
2	63.5	-0.113225128	109.720153100	0.044474084	64.5	-0.129665689
110.309193400		0.044535662				
2	64.5	-0.129665689	110.309193400	0.044535662	65.5	-0.145002179
110.898422800		0.044595254				
2	65.5	-0.145002179	110.898422800	0.044595254	66.5	-0.159197885
111.487580600		0.044652942				

2	66.5	-0.159197885	111.487580600	0.044652942	67.5	-0.172221748
112.076396700	0.044708809					
2	67.5	-0.172221748	112.076396700	0.044708809	68.5	-0.184048358
112.664594300	0.044762936					
2	68.5	-0.184048358	112.664594300	0.044762936	69.5	-0.194660215
113.251890200	0.044815402					
2	69.5	-0.194660215	113.251890200	0.044815402	70.5	-0.204030559
113.838000600	0.044866288					
2	70.5	-0.204030559	113.838000600	0.044866288	71.5	-0.212174408
114.422631700	0.044915672					
2	71.5	-0.212174408	114.422631700	0.044915672	72.5	-0.219069129
115.005497800	0.044963636					
2	72.5	-0.219069129	115.005497800	0.044963636	73.5	-0.224722166
115.586308900	0.045010259					
2	73.5	-0.224722166	115.586308900	0.045010259	74.5	-0.229140412
116.164778200	0.045055624					
2	74.5	-0.229140412	116.164778200	0.045055624	75.5	-0.232335686
116.740622100	0.045099817					
2	75.5	-0.232335686	116.740622100	0.045099817	76.5	-0.234324563
117.313562200	0.045142924					
2	76.5	-0.234324563	117.313562200	0.045142924	77.5	-0.235128195
117.883325900	0.045185036					
2	77.5	-0.235128195	117.883325900	0.045185036	78.5	-0.234772114
118.449648100	0.045226249					
2	78.5	-0.234772114	118.449648100	0.045226249	79.5	-0.233286033
119.012272200	0.045266662					
2	79.5	-0.233286033	119.012272200	0.045266662	80.5	-0.230703633
119.570951300	0.045306383					
2	80.5	-0.230703633	119.570951300	0.045306383	81.5	-0.227062344
120.125449500	0.045345524					
2	81.5	-0.227062344	120.125449500	0.045345524	82.5	-0.222403111
120.675542700	0.045384203					
2	82.5	-0.222403111	120.675542700	0.045384203	83.5	-0.216770161
121.221020000	0.045422551					
2	83.5	-0.216770161	121.221020000	0.045422551	84.5	-0.210210748
121.761684400	0.045460702					
2	84.5	-0.210210748	121.761684400	0.045460702	85.5	-0.202774891
122.297354200	0.045498803					
2	85.5	-0.202774891	122.297354200	0.045498803	86.5	-0.194515104
122.827864000	0.045537012					
2	86.5	-0.194515104	122.827864000	0.045537012	87.5	-0.185486099
123.353065200	0.045575495					
2	87.5	-0.185486099	123.353065200	0.045575495	88.5	-0.175744476
123.872827600	0.045614432					
2	88.5	-0.175744476	123.872827600	0.045614432	89.5	-0.165348396
124.387040000	0.045654016					
2	89.5	-0.165348396	124.387040000	0.045654016	90.5	-0.154357220
124.895611400	0.045694450					
2	90.5	-0.154357220	124.895611400	0.045694450	91.5	-0.142831123
125.398472000	0.045735953					
2	91.5	-0.142831123	125.398472000	0.045735953	92.5	-0.130830669
125.895574000	0.045778759					
2	92.5	-0.130830669	125.895574000	0.045778759	93.5	-0.118416354
126.386892900	0.045823114					
2	93.5	-0.118416354	126.386892900	0.045823114	94.5	-0.105648092
126.872428400	0.045869280					
2	94.5	-0.105648092	126.872428400	0.045869280	95.5	-0.092584657
127.352205600	0.045917535					
2	95.5	-0.092584657	127.352205600	0.045917535	96.5	-0.079283065
127.826275900	0.045968169					
2	96.5	-0.079283065	127.826275900	0.045968169	97.5	-0.065797888
128.294718700	0.046021490					
2	97.5	-0.065797888	128.294718700	0.046021490	98.5	-0.052180500
128.757642000	0.046077818					
2	98.5	-0.052180500	128.757642000	0.046077818	99.5	-0.038478250
129.215183900	0.046137487					
2	99.5	-0.038478250	129.215183900	0.046137487	100.5	-0.024733545
129.667514300	0.046200842					
2	100.5	-0.024733545	129.667514300	0.046200842	101.5	-0.010982868
130.114835400	0.046268240					
2	101.5	-0.010982868	130.114835400	0.046268240	102.5	0.002744306
130.557383900	0.046340046					
2	102.5	0.002744306	130.557383900	0.046340046	103.5	0.016426655
130.995432000	0.046416629					

2	103.5	0.016426655	130.995432000	0.046416629	104.5	0.030052231
131.429288700		0.046498361				
2	104.5	0.030052231	131.429288700	0.046498361	105.5	0.043619747
131.859301500		0.046585611				
2	105.5	0.043619747	131.859301500	0.046585611	106.5	0.057139880
132.285857400		0.046678741				
2	106.5	0.057139880	132.285857400	0.046678741	107.5	0.070636605
132.709384500		0.046778099				
2	107.5	0.070636605	132.709384500	0.046778099	108.5	0.084148480
133.130352700		0.046884010				
2	108.5	0.084148480	133.130352700	0.046884010	109.5	0.097729873
133.549274900		0.046996769				
2	109.5	0.097729873	133.549274900	0.046996769	110.5	0.111452039
133.966707300		0.047116633				
2	110.5	0.111452039	133.966707300	0.047116633	111.5	0.125404005
134.383249900		0.047243801				
2	111.5	0.125404005	134.383249900	0.047243801	112.5	0.139693160
134.799546300		0.047378413				
2	112.5	0.139693160	134.799546300	0.047378413	113.5	0.154445482
135.216282600		0.047520521				
2	113.5	0.154445482	135.216282600	0.047520521	114.5	0.169805275
135.634186000		0.047670085				
2	114.5	0.169805275	135.634186000	0.047670085	115.5	0.185934346
136.054022300		0.047826946				
2	115.5	0.185934346	136.054022300	0.047826946	116.5	0.203010488
136.476592500		0.047990810				
2	116.5	0.203010488	136.476592500	0.047990810	117.5	0.221225200
136.902728100		0.048161228				
2	117.5	0.221225200	136.902728100	0.048161228	118.5	0.240780542
137.333284600		0.048337570				
2	118.5	0.240780542	137.333284600	0.048337570	119.5	0.261885086
137.769133900		0.048519011				
2	119.5	0.261885086	137.769133900	0.048519011	120.5	0.284748919
138.211155200		0.048704503				
2	120.5	0.284748919	138.211155200	0.048704503	121.5	0.309577733
138.660222800		0.048892759				
2	121.5	0.309577733	138.660222800	0.048892759	122.5	0.336566048
139.117193300		0.049082239				
2	122.5	0.336566048	139.117193300	0.049082239	123.5	0.365889711
139.582889800		0.049271137				
2	123.5	0.365889711	139.582889800	0.049271137	124.5	0.397699038
140.058084800		0.049457371				
2	124.5	0.397699038	140.058084800	0.049457371	125.5	0.432104409
140.543478700		0.049638596				
2	125.5	0.432104409	140.543478700	0.049638596	126.5	0.469179930
141.039683200		0.049812203				
2	126.5	0.469179930	141.039683200	0.049812203	127.5	0.508943272
141.547194500		0.049975355				
2	127.5	0.508943272	141.547194500	0.049975355	128.5	0.551354277
142.066373100		0.050125012				
2	128.5	0.551354277	142.066373100	0.050125012	129.5	0.596307363
142.597420000		0.050257992				
2	129.5	0.596307363	142.597420000	0.050257992	130.5	0.643626542
143.140355300		0.050371024				
2	130.5	0.643626542	143.140355300	0.050371024	131.5	0.693062173
143.694998100		0.050460835				
2	131.5	0.693062173	143.694998100	0.050460835	132.5	0.744289752
144.260949700		0.050524236				
2	132.5	0.744289752	144.260949700	0.050524236	133.5	0.796910980
144.837580900		0.050558224				
2	133.5	0.796910980	144.837580900	0.050558224	134.5	0.850457280
145.424024600		0.050560083				
2	134.5	0.850457280	145.424024600	0.050560083	135.5	0.904395871
146.019174800		0.050527494				
2	135.5	0.904395871	146.019174800	0.050527494	136.5	0.958138449
146.621692000		0.050458634				
2	136.5	0.958138449	146.621692000	0.050458634	137.5	1.011054559
147.230017700		0.050352269				
2	137.5	1.011054559	147.230017700	0.050352269	138.5	1.062474568
147.842391800		0.050207825				
2	138.5	1.062474568	147.842391800	0.050207825	139.5	1.111727029
148.456887900		0.050025434				
2	139.5	1.111727029	148.456887900	0.050025434	140.5	1.158135105
149.071441300		0.049805967				

2	140.5	1.158135105	149.071441300	0.049805967	141.5	1.201050821
149.683894300		0.049551023				
2	141.5	1.201050821	149.683894300	0.049551023	142.5	1.239852328
150.292032800		0.049262895				
2	142.5	1.239852328	150.292032800	0.049262895	143.5	1.274006058
150.893646900		0.048944504				
2	143.5	1.274006058	150.893646900	0.048944504	144.5	1.303044695
151.486563600		0.048599314				
2	144.5	1.303044695	151.486563600	0.048599314	145.5	1.326605954
152.068698500		0.048231224				
2	145.5	1.326605954	152.068698500	0.048231224	146.5	1.344443447
152.638095500		0.047844442				
2	146.5	1.344443447	152.638095500	0.047844442	147.5	1.356437773
153.192963100		0.047443362				
2	147.5	1.356437773	153.192963100	0.047443362	148.5	1.362602695
153.731703100		0.047032430				
2	148.5	1.362602695	153.731703100	0.047032430	149.5	1.363085725
154.252933200		0.046616026				
2	149.5	1.363085725	154.252933200	0.046616026	150.5	1.358162799
154.755501000		0.046198356				
2	150.5	1.358162799	154.755501000	0.046198356	151.5	1.348227142
155.238490400		0.045783350				
2	151.5	1.348227142	155.238490400	0.045783350	152.5	1.333772923
155.701221600		0.045374597				
2	152.5	1.333772923	155.701221600	0.045374597	153.5	1.315374704
156.143243800		0.044975281				
2	153.5	1.315374704	156.143243800	0.044975281	154.5	1.293664024
156.564323000		0.044588148				
2	154.5	1.293664024	156.564323000	0.044588148	155.5	1.269304678
156.964425800		0.044215488				
2	155.5	1.269304678	156.964425800	0.044215488	156.5	1.242968236
157.343699500		0.043859135				
2	156.5	1.242968236	157.343699500	0.043859135	157.5	1.215311270
157.702450700		0.043520480				
2	157.5	1.215311270	157.702450700	0.043520480	158.5	1.186955477
158.041123300		0.043200497				
2	158.5	1.186955477	158.041123300	0.043200497	159.5	1.158471522
158.360275600		0.042899776				
2	159.5	1.158471522	158.360275600	0.042899776	160.5	1.130367088
158.660558800		0.042618565				
2	160.5	1.130367088	158.660558800	0.042618565	161.5	1.103079209
158.942696400		0.042356812				
2	161.5	1.103079209	158.942696400	0.042356812	162.5	1.076970655
159.207465400		0.042114211				
2	162.5	1.076970655	159.207465400	0.042114211	163.5	1.052329922
159.455679000		0.041890247				
2	163.5	1.052329922	159.455679000	0.041890247	164.5	1.029374161
159.688172000		0.041684240				
2	164.5	1.029374161	159.688172000	0.041684240	165.5	1.008254396
159.905787100		0.041495379				
2	165.5	1.008254396	159.905787100	0.041495379	166.5	0.989062282
160.109364700		0.041322765				
2	166.5	0.989062282	160.109364700	0.041322765	167.5	0.971837799
160.299733000		0.041165437				
2	167.5	0.971837799	160.299733000	0.041165437	168.5	0.956572150
160.477699600		0.041022401				
2	168.5	0.956572150	160.477699600	0.041022401	169.5	0.943242280
160.644052600		0.040892651				
2	169.5	0.943242280	160.644052600	0.040892651	170.5	0.931767062
160.799542800		0.040775193				
2	170.5	0.931767062	160.799542800	0.040775193	171.5	0.922058291
160.944891600		0.040669052				
2	171.5	0.922058291	160.944891600	0.040669052	172.5	0.914012643
161.080785700		0.040573288				
2	172.5	0.914012643	161.080785700	0.040573288	173.5	0.907516917
161.207875500		0.040487005				
2	173.5	0.907516917	161.207875500	0.040487005	174.5	0.902452436
161.326774400		0.040409354				
2	174.5	0.902452436	161.326774400	0.040409354	175.5	0.898698641
161.438059300		0.040339537				
2	175.5	0.898698641	161.438059300	0.040339537	176.5	0.896143482
161.542272600		0.040276811				
2	176.5	0.896143482	161.542272600	0.040276811	177.5	0.894659668
161.639917000		0.040220488				

2	177.5	0.894659668	161.639917000	0.040220488	178.5	0.894138920
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2	178.5	0.894138920	161.731464500	0.040169932	179.5	0.894475371
161.817353400		0.040124562				
2	179.5	0.894475371	161.817353400	0.040124562	180.5	0.895569834
161.897991300		0.040083845				
2	180.5	0.895569834	161.897991300	0.040083845	181.5	0.897330209
161.973755800		0.040047295				
2	181.5	0.897330209	161.973755800	0.040047295	182.5	0.899671635
162.044996900		0.040014473				
2	182.5	0.899671635	162.044996900	0.040014473	183.5	0.902516442
162.112038600		0.039984980				
2	183.5	0.902516442	162.112038600	0.039984980	184.5	0.905793969
162.175180000		0.039958458				
2	184.5	0.905793969	162.175180000	0.039958458	185.5	0.909440266
162.234697900		0.039934584				
2	185.5	0.909440266	162.234697900	0.039934584	186.5	0.913397733
162.290847400		0.039913066				
2	186.5	0.913397733	162.290847400	0.039913066	187.5	0.917614710
162.343864000		0.039893644				
2	187.5	0.917614710	162.343864000	0.039893644	188.5	0.922045055
162.393965200		0.039876087				
2	188.5	0.922045055	162.393965200	0.039876087	189.5	0.926647697
162.441351300		0.039860185				
2	189.5	0.926647697	162.441351300	0.039860185	190.5	0.931386217
162.486207100		0.039845754				
2	190.5	0.931386217	162.486207100	0.039845754	191.5	0.936228420
162.528702900		0.039832629				
2	191.5	0.936228420	162.528702900	0.039832629	192.5	0.941145943
162.568995800		0.039820663				
2	192.5	0.941145943	162.568995800	0.039820663	193.5	0.946113880
162.607230900		0.039809725				
2	193.5	0.946113880	162.607230900	0.039809725	194.5	0.951110430
162.643541800		0.039799700				
2	194.5	0.951110430	162.643541800	0.039799700	195.5	0.956116576
162.678051900		0.039790485				
2	195.5	0.956116576	162.678051900	0.039790485	196.5	0.961115792
162.710875100		0.039781991				
2	196.5	0.961115792	162.710875100	0.039781991	197.5	0.966093766
162.742116800		0.039774136				
2	197.5	0.966093766	162.742116800	0.039774136	198.5	0.971038162
162.771874100		0.039766850				
2	198.5	0.971038162	162.771874100	0.039766850	199.5	0.975938391
162.800237100		0.039760070				
2	199.5	0.975938391	162.800237100	0.039760070	200.5	0.980785418
162.827288900		0.039753741				
2	200.5	0.980785418	162.827288900	0.039753741	201.5	0.985571579
162.853106700		0.039747815				
2	201.5	0.985571579	162.853106700	0.039747815	202.5	0.990290420
162.877761900		0.039742249				
2	202.5	0.990290420	162.877761900	0.039742249	203.5	0.994936555
162.901320800		0.039737004				
2	203.5	0.994936555	162.901320800	0.039737004	204.5	0.999505539
162.923844900		0.039732048				
2	204.5	0.999505539	162.923844900	0.039732048	205.5	1.003993753
162.945391200		0.039727352				
2	205.5	1.003993753	162.945391200	0.039727352	206.5	1.008398300
162.966013100		0.039722890				
2	206.5	1.008398300	162.966013100	0.039722890	207.5	1.012716921
162.985759900		0.039718640				
2	207.5	1.012716921	162.985759900	0.039718640	208.5	1.016947912
163.004677600		0.039714581				
2	208.5	1.016947912	163.004677600	0.039714581	209.5	1.021090055
163.022809400		0.039710697				
2	209.5	1.021090055	163.022809400	0.039710697	210.5	1.025142554
163.040195300		0.039706971				
2	210.5	1.025142554	163.040195300	0.039706971	211.5	1.029104983
163.056872700		0.039703391				
2	211.5	1.029104983	163.056872700	0.039703391	212.5	1.032977233
163.072876800		0.039699945				
2	212.5	1.032977233	163.072876800	0.039699945	213.5	1.036759475
163.088240400		0.039696623				
2	213.5	1.036759475	163.088240400	0.039696623	214.5	1.040452117
163.102994300		0.039693415				

2	214.5	1.040452117	163.102994300	0.039693415	215.5	1.044055774
163.117167300		0.039690313				
2	215.5	1.044055774	163.117167300	0.039690313	216.5	1.047571238
163.130786600		0.039687311				
2	216.5	1.047571238	163.130786600	0.039687311	217.5	1.050999451
163.143877600		0.039684402				
2	217.5	1.050999451	163.143877600	0.039684402	218.5	1.054341482
163.156464400		0.039681581				
2	218.5	1.054341482	163.156464400	0.039681581	219.5	1.057598512
163.168569700		0.039678842				
2	219.5	1.057598512	163.168569700	0.039678842	220.5	1.060771808
163.180214600		0.039676182				
2	220.5	1.060771808	163.180214600	0.039676182	221.5	1.063862715
163.191419400		0.039673596				
2	221.5	1.063862715	163.191419400	0.039673596	222.5	1.066872639
163.202203000		0.039671082				
2	222.5	1.066872639	163.202203000	0.039671082	223.5	1.069803036
163.212583500		0.039668635				
2	223.5	1.069803036	163.212583500	0.039668635	224.5	1.072655401
163.222577900		0.039666254				
2	224.5	1.072655401	163.222577900	0.039666254	225.5	1.075431258
163.232202400		0.039663936				
2	225.5	1.075431258	163.232202400	0.039663936	226.5	1.078132156
163.241472200		0.039661679				
2	226.5	1.078132156	163.241472200	0.039661679	227.5	1.080759655
163.250401900		0.039659481				
2	227.5	1.080759655	163.250401900	0.039659481	228.5	1.083315329
163.259005200		0.039657339				
2	228.5	1.083315329	163.259005200	0.039657339	229.5	1.085800751
163.267295400		0.039655252				
2	229.5	1.085800751	163.267295400	0.039655252	230.5	1.088217496
163.275284800		0.039653218				
2	230.5	1.088217496	163.275284800	0.039653218	231.5	1.090567133
163.282985400		0.039651237				
2	231.5	1.090567133	163.282985400	0.039651237	232.5	1.092851222
163.290408600		0.039649306				
2	232.5	1.092851222	163.290408600	0.039649306	233.5	1.095071313
163.297565000		0.039647424				
2	233.5	1.095071313	163.297565000	0.039647424	234.5	1.097228939
163.304465000		0.039645591				
2	234.5	1.097228939	163.304465000	0.039645591	235.5	1.099325619
163.311118500		0.039643804				
2	235.5	1.099325619	163.311118500	0.039643804	236.5	1.101362852
163.317534900		0.039642063				
2	236.5	1.101362852	163.317534900	0.039642063	237.5	1.103342119
163.323723100		0.039640367				
2	237.5	1.103342119	163.323723100	0.039640367	238.5	1.105264876
163.329691800		0.039638715				
2	238.5	1.105264876	163.329691800	0.039638715	239.5	1.107132561
163.335449100		0.039637105				
2	239.5	1.107132561	163.335449100	0.039637105	240.0	1.108046193
163.338251000		0.039636316				

DATA WTFAGE; **DATA FILE FOR WEIGHT-FOR-AGE;

INFILE CARDS PAD;

INPUT SEX _AGEMOS1 _LWT1 _MWT1 _SWT1 _AGEMOS2 _LWT2 _MWT2 _SWT2;

CARDS;

1	0.0	1.815151075	3.530203168	0.152385273	0.5	1.547523128
4.003106424		0.146025021				
1	0.5	1.547523128	4.003106424	0.146025021	1.5	1.068795548
4.879525083		0.136478767				
1	1.5	1.068795548	4.879525083	0.136478767	2.5	0.695973505
5.672888765		0.129677511				
1	2.5	0.695973505	5.672888765	0.129677511	3.5	0.419815090
6.391391982		0.124717085				
1	3.5	0.419815090	6.391391982	0.124717085	4.5	0.219866801
7.041836432		0.121040119				
1	4.5	0.219866801	7.041836432	0.121040119	5.5	0.077505598
7.630425182		0.118271200				
1	5.5	0.077505598	7.630425182	0.118271200	6.5	-0.021907610
8.162951035		0.116153695				
1	6.5	-0.021907610	8.162951035	0.116153695	7.5	-0.089440900
8.644832479		0.114510349				

1	7.5	-0.089440900	8.644832479	0.114510349	8.5	-0.133409100
9.081119817		0.113217163				
1	8.5	-0.133409100	9.081119817	0.113217163	9.5	-0.160095400
9.476500305		0.112186240				
1	9.5	-0.160095400	9.476500305	0.112186240	10.5	-0.174296850
9.835307701		0.111354536				
1	10.5	-0.174296850	9.835307701	0.111354536	11.5	-0.179718900
10.161535670		0.110676413				
1	11.5	-0.179718900	10.161535670	0.110676413	12.5	-0.179254000
10.458853990		0.110118635				
1	12.5	-0.179254000	10.458853990	0.110118635	13.5	-0.175184470
10.730625600		0.109656941				
1	13.5	-0.175184470	10.730625600	0.109656941	14.5	-0.169322680
10.979924820		0.109273653				
1	14.5	-0.169322680	10.979924820	0.109273653	15.5	-0.163113900
11.209555290		0.108955960				
1	15.5	-0.163113900	11.209555290	0.108955960	16.5	-0.157709990
11.422067700		0.108694678				
1	16.5	-0.157709990	11.422067700	0.108694678	17.5	-0.154022790
11.619776980		0.108483324				
1	17.5	-0.154022790	11.619776980	0.108483324	18.5	-0.152762140
11.804779020		0.108317416				
1	18.5	-0.152762140	11.804779020	0.108317416	19.5	-0.154466580
11.978966300		0.108193944				
1	19.5	-0.154466580	11.978966300	0.108193944	20.5	-0.159522020
12.144043340		0.108110954				
1	20.5	-0.159522020	12.144043340	0.108110954	21.5	-0.168179260
12.301541030		0.108067236				
1	21.5	-0.168179260	12.301541030	0.108067236	22.5	-0.180566800
12.452830280		0.108062078				
1	22.5	-0.180566800	12.452830280	0.108062078	23.5	-0.196701960
12.599134940		0.108095077				
1	23.5	-0.196701960	12.599134940	0.108095077	24.5	-0.216501213
12.741543960		0.108166006				
1	24.5	-0.216501213	12.741543960	0.108166006	25.5	-0.239790488
12.881022760		0.108274706				
1	25.5	-0.239790488	12.881022760	0.108274706	26.5	-0.266315853
13.018423820		0.108421025				
1	26.5	-0.266315853	13.018423820	0.108421025	27.5	-0.295754969
13.154496600		0.108604770				
1	27.5	-0.295754969	13.154496600	0.108604770	28.5	-0.327729368
13.289896670		0.108825681				
1	28.5	-0.327729368	13.289896670	0.108825681	29.5	-0.361817468
13.425194080		0.109083424				
1	29.5	-0.361817468	13.425194080	0.109083424	30.5	-0.397568087
13.560881130		0.109377581				
1	30.5	-0.397568087	13.560881130	0.109377581	31.5	-0.434520252
13.697378580		0.109707646				
1	31.5	-0.434520252	13.697378580	0.109707646	32.5	-0.472188756
13.835046220		0.110073084				
1	32.5	-0.472188756	13.835046220	0.110073084	33.5	-0.510116627
13.974182990		0.110473254				
1	33.5	-0.510116627	13.974182990	0.110473254	34.5	-0.547885579
14.115032400		0.110907400				
1	34.5	-0.547885579	14.115032400	0.110907400	35.5	-0.585070110
14.257796180		0.111374787				
1	35.5	-0.585070110	14.257796180	0.111374787	36.5	-0.621319726
14.402627490		0.111874514				
1	36.5	-0.621319726	14.402627490	0.111874514	37.5	-0.656295986
14.549646140		0.112405687				
1	37.5	-0.656295986	14.549646140	0.112405687	38.5	-0.689735029
14.698933260		0.112967254				
1	38.5	-0.689735029	14.698933260	0.112967254	39.5	-0.721410388
14.850541510		0.113558110				
1	39.5	-0.721410388	14.850541510	0.113558110	40.5	-0.751175223
15.004491430		0.114176956				
1	40.5	-0.751175223	15.004491430	0.114176956	41.5	-0.778904279
15.160784540		0.114822482				
1	41.5	-0.778904279	15.160784540	0.114822482	42.5	-0.804515498
15.319402460		0.115493292				
1	42.5	-0.804515498	15.319402460	0.115493292	43.5	-0.828003255
15.480303130		0.116187777				
1	43.5	-0.828003255	15.480303130	0.116187777	44.5	-0.849380372
15.643433090		0.116904306				

1	44.5	-0.849380372	15.643433090	0.116904306	45.5	-0.868699650
15.808725350		0.117641148				
1	45.5	-0.868699650	15.808725350	0.117641148	46.5	-0.886033992
15.976104560		0.118396541				
1	46.5	-0.886033992	15.976104560	0.118396541	47.5	-0.901507878
16.145481940		0.119168555				
1	47.5	-0.901507878	16.145481940	0.119168555	48.5	-0.915241589
16.316767270		0.119955320				
1	48.5	-0.915241589	16.316767270	0.119955320	49.5	-0.927377772
16.489864600		0.120754916				
1	49.5	-0.927377772	16.489864600	0.120754916	50.5	-0.938069819
16.664675290		0.121565421				
1	50.5	-0.938069819	16.664675290	0.121565421	51.5	-0.947477940
16.841099480		0.122384927				
1	51.5	-0.947477940	16.841099480	0.122384927	52.5	-0.955765694
17.019037460		0.123211562				
1	52.5	-0.955765694	17.019037460	0.123211562	53.5	-0.963096972
17.198390800		0.124043503				
1	53.5	-0.963096972	17.198390800	0.124043503	54.5	-0.969633434
17.379063410		0.124878992				
1	54.5	-0.969633434	17.379063410	0.124878992	55.5	-0.975532355
17.560962450		0.125716348				
1	55.5	-0.975532355	17.560962450	0.125716348	56.5	-0.980937915
17.744000820		0.126554022				
1	56.5	-0.980937915	17.744000820	0.126554022	57.5	-0.986006518
17.928091210		0.127390453				
1	57.5	-0.986006518	17.928091210	0.127390453	58.5	-0.990866940
18.113156250		0.128224294				
1	58.5	-0.990866940	18.113156250	0.128224294	59.5	-0.995644402
18.299122860		0.129054277				
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18.485924130		0.129879257				
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18.673499650		0.130698212				
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18.861795760		0.131510245				
1	62.5	-1.010575003	18.861795760	0.131510245	63.5	-1.016061941
19.050765790		0.132314586				
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19.240370190		0.133110593				
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19.430576620		0.133897752				
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19.621360070		0.134675673				
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19.812702800		0.135444090				
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21.363830130		0.141256489				
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21.560584670		0.141946613				
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21.758105060		0.142630785				
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27.164891990		0.161025689				
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31.185329840		0.175836284				
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31.482253150		0.176871417				

1	118.5	-1.234527763	31.482253150	0.176871417	119.5	-1.220815047
31.783123290		0.177902912				
1	119.5	-1.220815047	31.783123290	0.177902912	120.5	-1.206688407
32.087990620		0.178928740				
1	120.5	-1.206688407	32.087990620	0.178928740	121.5	-1.192190150
32.396903130		0.179946830				
1	121.5	-1.192190150	32.396903130	0.179946830	122.5	-1.177361786
32.709906200		0.180955078				
1	122.5	-1.177361786	32.709906200	0.180955078	123.5	-1.162243894
33.027042440		0.181951361				
1	123.5	-1.162243894	33.027042440	0.181951361	124.5	-1.146876007
33.348351480		0.182933537				
1	124.5	-1.146876007	33.348351480	0.182933537	125.5	-1.131296524
33.673869730		0.183899465				
1	125.5	-1.131296524	33.673869730	0.183899465	126.5	-1.115542634
34.003630170		0.184847006				
1	126.5	-1.115542634	34.003630170	0.184847006	127.5	-1.099650267
34.337662070		0.185774041				
1	127.5	-1.099650267	34.337662070	0.185774041	128.5	-1.083654055
34.675990760		0.186678470				
1	128.5	-1.083654055	34.675990760	0.186678470	129.5	-1.067587314
35.018637320		0.187558229				
1	129.5	-1.067587314	35.018637320	0.187558229	130.5	-1.051482972
35.365617370		0.188411280				
1	130.5	-1.051482972	35.365617370	0.188411280	131.5	-1.035367321
35.716947230		0.189235738				
1	131.5	-1.035367321	35.716947230	0.189235738	132.5	-1.019277299
36.072625690		0.190029545				
1	132.5	-1.019277299	36.072625690	0.190029545	133.5	-1.003235326
36.432659960		0.190790973				
1	133.5	-1.003235326	36.432659960	0.190790973	134.5	-0.987269866
36.797043920		0.191518224				
1	134.5	-0.987269866	36.797043920	0.191518224	135.5	-0.971406609
37.165767100		0.192209619				
1	135.5	-0.971406609	37.165767100	0.192209619	136.5	-0.955670107
37.538812680		0.192863569				
1	136.5	-0.955670107	37.538812680	0.192863569	137.5	-0.940083834
37.916157210		0.193478582				
1	137.5	-0.940083834	37.916157210	0.193478582	138.5	-0.924670244
38.297770300		0.194053274				
1	138.5	-0.924670244	38.297770300	0.194053274	139.5	-0.909450843
38.683614300		0.194586368				
1	139.5	-0.909450843	38.683614300	0.194586368	140.5	-0.894446258
39.073644010		0.195076705				
1	140.5	-0.894446258	39.073644010	0.195076705	141.5	-0.879676305
39.467806430		0.195523246				
1	141.5	-0.879676305	39.467806430	0.195523246	142.5	-0.865160071
39.866040440		0.195925079				
1	142.5	-0.865160071	39.866040440	0.195925079	143.5	-0.850915987
40.268276520		0.196281418				
1	143.5	-0.850915987	40.268276520	0.196281418	144.5	-0.836961905
40.674436580		0.196591612				
1	144.5	-0.836961905	40.674436580	0.196591612	145.5	-0.823315176
41.084433630		0.196855140				
1	145.5	-0.823315176	41.084433630	0.196855140	146.5	-0.809992726
41.498171640		0.197071620				
1	146.5	-0.809992726	41.498171640	0.197071620	147.5	-0.797011132
41.915545280		0.197240806				
1	147.5	-0.797011132	41.915545280	0.197240806	148.5	-0.784386693
42.336439780		0.197362591				
1	148.5	-0.784386693	42.336439780	0.197362591	149.5	-0.772135506
42.760730780		0.197437004				
1	149.5	-0.772135506	42.760730780	0.197437004	150.5	-0.760273528
43.188284190		0.197464210				
1	150.5	-0.760273528	43.188284190	0.197464210	151.5	-0.748815968
43.618957030		0.197444522				
1	151.5	-0.748815968	43.618957030	0.197444522	152.5	-0.737780398
44.052593100		0.197378345				
1	152.5	-0.737780398	44.052593100	0.197378345	153.5	-0.727181568
44.489030270		0.197266263				
1	153.5	-0.727181568	44.489030270	0.197266263	154.5	-0.717035494
44.928094830		0.197108968				
1	154.5	-0.717035494	44.928094830	0.197108968	155.5	-0.707358338
45.369603150		0.196907274				

1	155.5	-0.707358338	45.369603150	0.196907274	156.5	-0.698166437
45.813361720		0.196662115				
1	156.5	-0.698166437	45.813361720	0.196662115	157.5	-0.689476327
46.259167290		0.196374538				
1	157.5	-0.689476327	46.259167290	0.196374538	158.5	-0.681304750
46.706807010		0.196045701				
1	158.5	-0.681304750	46.706807010	0.196045701	159.5	-0.673668658
47.156058630		0.195676862				
1	159.5	-0.673668658	47.156058630	0.195676862	160.5	-0.666585194
47.606690740		0.195269380				
1	160.5	-0.666585194	47.606690740	0.195269380	161.5	-0.660069969
48.058465720		0.194824730				
1	161.5	-0.660069969	48.058465720	0.194824730	162.5	-0.654142602
48.511131380		0.194344410				
1	162.5	-0.654142602	48.511131380	0.194344410	163.5	-0.648819666
48.964432240		0.193830046				
1	163.5	-0.648819666	48.964432240	0.193830046	164.5	-0.644118611
49.418103740		0.193283319				
1	164.5	-0.644118611	49.418103740	0.193283319	165.5	-0.640056805
49.871874090		0.192705974				
1	165.5	-0.640056805	49.871874090	0.192705974	166.5	-0.636651424
50.325464780		0.192099812				
1	166.5	-0.636651424	50.325464780	0.192099812	167.5	-0.633919328
50.778591210		0.191466681				
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51.230963320		0.190808471				
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51.682286250		0.190127105				
1	169.5	-0.630539940	51.682286250	0.190127105	170.5	-0.629923353
52.132261130		0.189424530				
1	170.5	-0.629923353	52.132261130	0.189424530	171.5	-0.630041066
52.580585830		0.188702714				
1	171.5	-0.630041066	52.580585830	0.188702714	172.5	-0.630905733
53.026955880		0.187963636				
1	172.5	-0.630905733	53.026955880	0.187963636	173.5	-0.632528509
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53.912607370		0.186441630				
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54.351276080		0.185662657				
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55.218776570		0.184078567				
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56.071164070		0.182472427				
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1	180.5	-0.665609025	56.490958620	0.181665781	181.5	-0.673425951
56.906108860		0.180859180				
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58.514921430		0.177667942				
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58.902932080		0.176887192				
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59.660326260		0.175356814				
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62.097193990		0.170465756				
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62.728093620		0.169237063				
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2	20.5	-0.599921130	11.464397080	0.105612780	21.5	-0.641854180
11.640434020		0.106007025				
2	21.5	-0.641854180	11.640434020	0.106007025	22.5	-0.681138100
11.810138950		0.106497957				
2	22.5	-0.681138100	11.810138950	0.106497957	23.5	-0.717882830
11.974537480		0.107078197				
2	23.5	-0.717882830	11.974537480	0.107078197	24.5	-0.752206570
12.134555230		0.107740345				
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12.444692580		0.109280828				
2	26.5	-0.814095820	12.444692580	0.109280828	27.5	-0.841935504
12.596223350		0.110144488				
2	27.5	-0.841935504	12.596223350	0.110144488	28.5	-0.867889398
12.746209110		0.111060815				
2	28.5	-0.867889398	12.746209110	0.111060815	29.5	-0.892102647
12.895172180		0.112022759				
2	29.5	-0.892102647	12.895172180	0.112022759	30.5	-0.914718817
13.043571640		0.113023467				
2	30.5	-0.914718817	13.043571640	0.113023467	31.5	-0.935876584
13.191808740		0.114056328				
2	31.5	-0.935876584	13.191808740	0.114056328	32.5	-0.955723447
13.340229340		0.115114953				
2	32.5	-0.955723447	13.340229340	0.115114953	33.5	-0.974383363
13.489133190		0.116193327				
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13.638774460		0.117285750				
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13.789365470		0.118386848				
2	35.5	-1.008640742	13.789365470	0.118386848	36.5	-1.024471278
13.941083320		0.119491669				
2	36.5	-1.024471278	13.941083320	0.119491669	37.5	-1.039573604
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14.404291690		0.122785030				
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14.561675290		0.123863400				
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14.720640450		0.124926943				
2	41.5	-1.094381409	14.720640450	0.124926943	42.5	-1.107021613
14.881213520		0.125973221				
2	42.5	-1.107021613	14.881213520	0.125973221	43.5	-1.119338692
15.043405530		0.127000212				
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15.207214430		0.128006292				
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15.372627290		0.128990225				
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15.539622210		0.129951143				
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15.708170170		0.130888527				
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15.878236680		0.131802186				
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16.222770600		0.133559108				
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16.572891220		0.135225990				
2	52.5	-1.218965087	16.572891220	0.135225990	53.5	-1.228798212
16.749941870		0.136028014				
2	53.5	-1.228798212	16.749941870	0.136028014	54.5	-1.238330855
16.928265870		0.136810739				
2	54.5	-1.238330855	16.928265870	0.136810739	55.5	-1.247537914
17.107826150		0.137575606				
2	55.5	-1.247537914	17.107826150	0.137575606	56.5	-1.256392179
17.288588940		0.138324193				
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17.470524440		0.139058192				
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17.653607330		0.139779387				
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17.837817220		0.140489635				
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18.023139040		0.141190842				
2	60.5	-1.287691525	18.023139040	0.141190842	61.5	-1.294332076
18.209564180		0.141884974				
2	61.5	-1.294332076	18.209564180	0.141884974	62.5	-1.300441561
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2	63.5	-1.305989011	18.585712430	0.143259709	64.5	-1.310946941
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2	65.5	-1.315289534	18.966307000	0.144629359	66.5	-1.318992925
19.158312670		0.145316990				
2	66.5	-1.318992925	19.158312670	0.145316990	67.5	-1.322035315
19.351491630		0.146008903				
2	67.5	-1.322035315	19.351491630	0.146008903	68.5	-1.324398133
19.545877080		0.146706813				
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19.741508540		0.147412363				
2	69.5	-1.326064539	19.741508540	0.147412363	70.5	-1.327020415
19.938431450		0.148127109				
2	70.5	-1.327020415	19.938431450	0.148127109	71.5	-1.327256387
20.136696230		0.148852482				
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21.357973320		0.153495050				
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21.567480450		0.154325756				
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21.778909020		0.155174414				
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21.992346860		0.156041320				
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22.207885410		0.156926667				
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22.425617700		0.157830504				
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22.645638240		0.158752743				
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22.868042580		0.159693163				
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23.092926790		0.160651410				
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23.550518710		0.162619308				
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23.783416520		0.163627600				
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24.257890740		0.165688808				
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24.744535360		0.167802495				
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24.992637350		0.168876037				
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25.244033710		0.169958922				
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25.498802640		0.171049756				
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25.757016800		0.172147043				
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26.018742610		0.173249185				
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26.284043120		0.174354569				
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26.825589040		0.176568284				
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41.463359070		0.202486098				
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41.827979630		0.202298783				
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42.190633130		0.202074385				
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43.616834020		0.200818928				
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43.966116900		0.200419208				
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44.654373190		0.199522233				
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46.933144040		0.195454890				
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47.239620580		0.194769279				
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22.452571820		0.132484631				
1	227.5	-1.836655860	22.452571820	0.132484631	228.5	-1.835138046
22.500717780		0.132566359				
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1	236.5	-1.835557520	22.869089120	0.133716192	237.5	-1.837119466
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16.187346690		0.082748284				
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2	150.5	-1.959520079	18.420022840	0.149783482	151.5	-1.957988900
18.472977390		0.149970604				
2	151.5	-1.957988900	18.472977390	0.149970604	152.5	-1.956772271
18.525860350		0.150144020				
2	152.5	-1.956772271	18.525860350	0.150144020	153.5	-1.955866520
18.578659510		0.150303950				
2	153.5	-1.955866520	18.578659510	0.150303950	154.5	-1.955267984
18.631362750		0.150450621				
2	154.5	-1.955267984	18.631362750	0.150450621	155.5	-1.954973011
18.683958010		0.150584270				
2	155.5	-1.954973011	18.683958010	0.150584270	156.5	-1.954977947
18.736433380		0.150705138				
2	156.5	-1.954977947	18.736433380	0.150705138	157.5	-1.955279136
18.788777000		0.150813475				
2	157.5	-1.955279136	18.788777000	0.150813475	158.5	-1.955872909
18.840977130		0.150909535				
2	158.5	-1.955872909	18.840977130	0.150909535	159.5	-1.956755579
18.893022120		0.150993582				
2	159.5	-1.956755579	18.893022120	0.150993582	160.5	-1.957923436
18.944900410		0.151065883				
2	160.5	-1.957923436	18.944900410	0.151065883	161.5	-1.959372737
18.996600550		0.151126714				
2	161.5	-1.959372737	18.996600550	0.151126714	162.5	-1.961099700
19.048111180		0.151176355				
2	162.5	-1.961099700	19.048111180	0.151176355	163.5	-1.963100496
19.099421050		0.151215094				
2	163.5	-1.963100496	19.099421050	0.151215094	164.5	-1.965371240
19.150518990		0.151243223				
2	164.5	-1.965371240	19.150518990	0.151243223	165.5	-1.967907983
19.201393970		0.151261042				
2	165.5	-1.967907983	19.201393970	0.151261042	166.5	-1.970706706
19.252035030		0.151268855				
2	166.5	-1.970706706	19.252035030	0.151268855	167.5	-1.973763307
19.302431310		0.151266974				
2	167.5	-1.973763307	19.302431310	0.151266974	168.5	-1.977073595
19.352572090		0.151255713				
2	168.5	-1.977073595	19.352572090	0.151255713	169.5	-1.980633277
19.402446710		0.151235395				
2	169.5	-1.980633277	19.402446710	0.151235395	170.5	-1.984437954
19.452044650		0.151206347				
2	170.5	-1.984437954	19.452044650	0.151206347	171.5	-1.988483106
19.501355480		0.151168902				
2	171.5	-1.988483106	19.501355480	0.151168902	172.5	-1.992764085
19.550368880		0.151123398				
2	172.5	-1.992764085	19.550368880	0.151123398	173.5	-1.997276103
19.599074640		0.151070180				
2	173.5	-1.997276103	19.599074640	0.151070180	174.5	-2.002014224
19.647462660		0.151009595				
2	174.5	-2.002014224	19.647462660	0.151009595	175.5	-2.006973350
19.695522940		0.150942000				
2	175.5	-2.006973350	19.695522940	0.150942000	176.5	-2.012148213
19.743245600		0.150867753				
2	176.5	-2.012148213	19.743245600	0.150867753	177.5	-2.017533363
19.790620860		0.150787221				
2	177.5	-2.017533363	19.790620860	0.150787221	178.5	-2.023123159
19.837639070		0.150700774				
2	178.5	-2.023123159	19.837639070	0.150700774	179.5	-2.028911755
19.884290660		0.150608788				
2	179.5	-2.028911755	19.884290660	0.150608788	180.5	-2.034893091
19.930566200		0.150511645				

2	180.5	-2.034893091	19.930566200	0.150511645	181.5	-2.041060881
19.976456360		0.150409731				
2	181.5	-2.041060881	19.976456360	0.150409731	182.5	-2.047408604
20.021951920		0.150303440				
2	182.5	-2.047408604	20.021951920	0.150303440	183.5	-2.053929490
20.067043770		0.150193169				
2	183.5	-2.053929490	20.067043770	0.150193169	184.5	-2.060616513
20.111722910		0.150079322				
2	184.5	-2.060616513	20.111722910	0.150079322	185.5	-2.067462375
20.155980470		0.149962308				
2	185.5	-2.067462375	20.155980470	0.149962308	186.5	-2.074459502
20.199807670		0.149842540				
2	186.5	-2.074459502	20.199807670	0.149842540	187.5	-2.081600029
20.243195860		0.149720441				
2	187.5	-2.081600029	20.243195860	0.149720441	188.5	-2.088875793
20.286136480		0.149596434				
2	188.5	-2.088875793	20.286136480	0.149596434	189.5	-2.096278323
20.328621090		0.149470953				
2	189.5	-2.096278323	20.328621090	0.149470953	190.5	-2.103798828
20.370641380		0.149344433				
2	190.5	-2.103798828	20.370641380	0.149344433	191.5	-2.111428194
20.412189110		0.149217319				
2	191.5	-2.111428194	20.412189110	0.149217319	192.5	-2.119156972
20.453256170		0.149090060				
2	192.5	-2.119156972	20.453256170	0.149090060	193.5	-2.126975375
20.493834570		0.148963110				
2	193.5	-2.126975375	20.493834570	0.148963110	194.5	-2.134873266
20.533916400		0.148836931				
2	194.5	-2.134873266	20.533916400	0.148836931	195.5	-2.142840157
20.573493870		0.148711989				
2	195.5	-2.142840157	20.573493870	0.148711989	196.5	-2.150865204
20.612559290		0.148588757				
2	196.5	-2.150865204	20.612559290	0.148588757	197.5	-2.158937201
20.651105060		0.148467715				
2	197.5	-2.158937201	20.651105060	0.148467715	198.5	-2.167044578
20.689123700		0.148349348				
2	198.5	-2.167044578	20.689123700	0.148349348	199.5	-2.175176987
20.726607280		0.148234120				
2	199.5	-2.175176987	20.726607280	0.148234120	200.5	-2.183317362
20.763550110		0.148122614				
2	200.5	-2.183317362	20.763550110	0.148122614	201.5	-2.191457792
20.799943370		0.148015249				
2	201.5	-2.191457792	20.799943370	0.148015249	202.5	-2.199583649
20.835780510		0.147912564				
2	202.5	-2.199583649	20.835780510	0.147912564	203.5	-2.207681525
20.871054490		0.147815078				
2	203.5	-2.207681525	20.871054490	0.147815078	204.5	-2.215737645
20.905758390		0.147723315				
2	204.5	-2.215737645	20.905758390	0.147723315	205.5	-2.223739902
20.939884770		0.147637768				
2	205.5	-2.223739902	20.939884770	0.147637768	206.5	-2.231667995
20.973428580		0.147559083				
2	206.5	-2.231667995	20.973428580	0.147559083	207.5	-2.239511942
21.006381710		0.147487716				
2	207.5	-2.239511942	21.006381710	0.147487716	208.5	-2.247257081
21.038737400		0.147424210				
2	208.5	-2.247257081	21.038737400	0.147424210	209.5	-2.254885145
21.070489960		0.147369174				
2	209.5	-2.254885145	21.070489960	0.147369174	210.5	-2.262382090
21.101632410		0.147323144				
2	210.5	-2.262382090	21.101632410	0.147323144	211.5	-2.269731517
21.132158450		0.147286698				
2	211.5	-2.269731517	21.132158450	0.147286698	212.5	-2.276917229
21.162061710		0.147260415				
2	212.5	-2.276917229	21.162061710	0.147260415	213.5	-2.283925442
21.191335100		0.147244828				
2	213.5	-2.283925442	21.191335100	0.147244828	214.5	-2.290731442
21.219974720		0.147240683				
2	214.5	-2.290731442	21.219974720	0.147240683	215.5	-2.297324270
21.247972620		0.147248467				
2	215.5	-2.297324270	21.247972620	0.147248467	216.5	-2.303687802
21.275322390		0.147268770				
2	216.5	-2.303687802	21.275322390	0.147268770	217.5	-2.309799971
21.302019330		0.147302299				

2	217.5	-2.309799971	21.302019330	0.147302299	218.5	-2.315651874
21.328054890		0.147349514				
2	218.5	-2.315651874	21.328054890	0.147349514	219.5	-2.321217310
21.353425630		0.147411215				
2	219.5	-2.321217310	21.353425630	0.147411215	220.5	-2.326481911
21.378124620		0.147487979				
2	220.5	-2.326481911	21.378124620	0.147487979	221.5	-2.331428139
21.402145890		0.147580453				
2	221.5	-2.331428139	21.402145890	0.147580453	222.5	-2.336038473
21.425483510		0.147689289				
2	222.5	-2.336038473	21.425483510	0.147689289	223.5	-2.340295450
21.448131560		0.147815150				
2	223.5	-2.340295450	21.448131560	0.147815150	224.5	-2.344181703
21.470084120		0.147958706				
2	224.5	-2.344181703	21.470084120	0.147958706	225.5	-2.347680000
21.491335290		0.148120633				
2	225.5	-2.347680000	21.491335290	0.148120633	226.5	-2.350773286
21.511879180		0.148301619				
2	226.5	-2.350773286	21.511879180	0.148301619	227.5	-2.353444725
21.531709890		0.148502355				
2	227.5	-2.353444725	21.531709890	0.148502355	228.5	-2.355677743
21.550821550		0.148723546				
2	228.5	-2.355677743	21.550821550	0.148723546	229.5	-2.357456070
21.569208240		0.148965902				
2	229.5	-2.357456070	21.569208240	0.148965902	230.5	-2.358763788
21.586864060		0.149230142				
2	230.5	-2.358763788	21.586864060	0.149230142	231.5	-2.359585369
21.603783090		0.149516994				
2	231.5	-2.359585369	21.603783090	0.149516994	232.5	-2.359905726
21.619959390		0.149827195				
2	232.5	-2.359905726	21.619959390	0.149827195	233.5	-2.359710258
21.635387000		0.150161492				
2	233.5	-2.359710258	21.635387000	0.150161492	234.5	-2.358980464
21.650061260		0.150520734				
2	234.5	-2.358980464	21.650061260	0.150520734	235.5	-2.357714508
21.663972700		0.150905439				
2	235.5	-2.357714508	21.663972700	0.150905439	236.5	-2.355892424
21.677117360		0.151316531				
2	236.5	-2.355892424	21.677117360	0.151316531	237.5	-2.353501353
21.689489350		0.151754808				
2	237.5	-2.353501353	21.689489350	0.151754808	238.5	-2.350528726
21.701082880		0.152221086				
2	238.5	-2.350528726	21.701082880	0.152221086	239.5	-2.346962247
21.711892250		0.152716206				
2	239.5	-2.346962247	21.711892250	0.152716206	240	-2.344958430
21.716999340		0.152974718				

;

DATA HCFAGE; **DATA FILE FOR HEAD CIRCUMFERENCE-FOR-AGE;
 INFILE CARDS PAD;
 INPUT SEX _AGEMOS1 _LHC1 _MHC1 _SHC1 _AGEMOS2 _LHC2 _MHC2 _SHC2;
 CARDS;

1	0.0	4.427825037	35.813668350	0.052172542	0.5	4.310927464
37.193610540		0.047259148				
1	0.5	4.310927464	37.193610540	0.047259148	1.5	3.869576802
39.207429290		0.040947903				
1	1.5	3.869576802	39.207429290	0.040947903	2.5	3.305593039
40.652331950		0.037027722				
1	2.5	3.305593039	40.652331950	0.037027722	3.5	2.720590297
41.765169590		0.034364245				
1	3.5	2.720590297	41.765169590	0.034364245	4.5	2.168048240
42.661161480		0.032462175				
1	4.5	2.168048240	42.661161480	0.032462175	5.5	1.675465689
43.404887310		0.031064702				
1	5.5	1.675465689	43.404887310	0.031064702	6.5	1.255160322
44.036099230		0.030022670				
1	6.5	1.255160322	44.036099230	0.030022670	7.5	0.910541140
44.580969120		0.029242173				
1	7.5	0.910541140	44.580969120	0.029242173	8.5	0.639510474
45.057612150		0.028660454				
1	8.5	0.639510474	45.057612150	0.028660454	9.5	0.436978864
45.479075600		0.028233600				
1	9.5	0.436978864	45.479075600	0.028233600	10.5	0.296275856
45.855057060		0.027929764				

1	10.5	0.296275856	45.855057060	0.027929764	11.5	0.210107251
46.192954270		0.027725179				
1	11.5	0.210107251	46.192954270	0.027725179	12.5	0.171147024
46.498534380		0.027601686				
1	12.5	0.171147024	46.498534380	0.027601686	13.5	0.172393886
46.776376840		0.027545148				
1	13.5	0.172393886	46.776376840	0.027545148	14.5	0.207371541
47.030175990		0.027544382				
1	14.5	0.207371541	47.030175990	0.027544382	15.5	0.270226126
47.262953300		0.027590417				
1	15.5	0.270226126	47.262953300	0.027590417	16.5	0.355757274
47.477209890		0.027675980				
1	16.5	0.355757274	47.477209890	0.027675980	17.5	0.459407627
47.675038330		0.027795115				
1	17.5	0.459407627	47.675038330	0.027795115	18.5	0.577227615
47.858206060		0.027942900				
1	18.5	0.577227615	47.858206060	0.027942900	19.5	0.705826778
48.028218670		0.028115241				
1	19.5	0.705826778	48.028218670	0.028115241	20.5	0.842319055
48.186368640		0.028308707				
1	20.5	0.842319055	48.186368640	0.028308707	21.5	0.984266833
48.333773200		0.028520407				
1	21.5	0.984266833	48.333773200	0.028520407	22.5	1.129626698
48.471404320		0.028747896				
1	22.5	1.129626698	48.471404320	0.028747896	23.5	1.276691223
48.600112230		0.028989089				
1	23.5	1.276691223	48.600112230	0.028989089	24.5	1.424084853
48.720646210		0.029242207				
1	24.5	1.424084853	48.720646210	0.029242207	25.5	1.570621291
48.833666290		0.029505723				
1	25.5	1.570621291	48.833666290	0.029505723	26.5	1.715393998
48.939760890		0.029778323				
1	26.5	1.715393998	48.939760890	0.029778323	27.5	1.857652984
49.039453830		0.030058871				
1	27.5	1.857652984	49.039453830	0.030058871	28.5	1.996810563
49.133214320		0.030346384				
1	28.5	1.996810563	49.133214320	0.030346384	29.5	2.132411346
49.221464090		0.030640006				
1	29.5	2.132411346	49.221464090	0.030640006	30.5	2.264111009
49.304583480		0.030938992				
1	30.5	2.264111009	49.304583480	0.030938992	31.5	2.391658052
49.382916580		0.031242693				
1	31.5	2.391658052	49.382916580	0.031242693	32.5	2.514878222
49.456775690		0.031550537				
1	32.5	2.514878222	49.456775690	0.031550537	33.5	2.633661226
49.526445000		0.031862026				
1	33.5	2.633661226	49.526445000	0.031862026	34.5	2.747949445
49.592183850		0.032176720				
1	34.5	2.747949445	49.592183850	0.032176720	35.5	2.857728375
49.654229520		0.032494231				
1	35.5	2.857728375	49.654229520	0.032494231	36.5	2.967507305
49.716275190		0.032811742				
2	0.0	-1.298749689	34.711561700	0.046905108	0.5	-1.440271514
36.034538760		0.042999604				
2	0.5	-1.440271514	36.034538760	0.042999604	1.5	-1.581016348
37.976719870		0.038067862				
2	1.5	-1.581016348	37.976719870	0.038067862	2.5	-1.593136386
39.380126300		0.035079612				
2	2.5	-1.593136386	39.380126300	0.035079612	3.5	-1.521492427
40.467737330		0.033096443				
2	3.5	-1.521492427	40.467737330	0.033096443	4.5	-1.394565915
41.348410080		0.031709630				
2	4.5	-1.394565915	41.348410080	0.031709630	5.5	-1.231713389
42.083350700		0.030709039				
2	5.5	-1.231713389	42.083350700	0.030709039	6.5	-1.046582628
42.710336030		0.029974303				
2	6.5	-1.046582628	42.710336030	0.029974303	7.5	-0.848932692
43.254288820		0.029430992				
2	7.5	-0.848932692	43.254288820	0.029430992	8.5	-0.645779124
43.732496460		0.029030379				
2	8.5	-0.645779124	43.732496460	0.029030379	9.5	-0.442165412
44.157428370		0.028739112				
2	9.5	-0.442165412	44.157428370	0.028739112	10.5	-0.241632060
44.538367940		0.028533537				

2	10.5	-0.241632060	44.538367940	0.028533537	11.5	-0.046673786
44.882405620		0.028396382				
2	11.5	-0.046673786	44.882405620	0.028396382	12.5	0.141031094
45.195076510		0.028314722				
2	12.5	0.141031094	45.195076510	0.028314722	13.5	0.320403169
45.480781470		0.028278682				
2	13.5	0.320403169	45.480781470	0.028278682	14.5	0.490807133
45.743075270		0.028280585				
2	14.5	0.490807133	45.743075270	0.028280585	15.5	0.651935050
45.984869010		0.028314363				
2	15.5	0.651935050	45.984869010	0.028314363	16.5	0.803718086
46.208575580		0.028375159				
2	16.5	0.803718086	46.208575580	0.028375159	17.5	0.946259679
46.416216350		0.028459033				
2	17.5	0.946259679	46.416216350	0.028459033	18.5	1.079784984
46.609500840		0.028562759				
2	18.5	1.079784984	46.609500840	0.028562759	19.5	1.204602687
46.789887220		0.028683666				
2	19.5	1.204602687	46.789887220	0.028683666	20.5	1.321076285
46.958628810		0.028819525				
2	20.5	1.321076285	46.958628810	0.028819525	21.5	1.429602576
47.116810390		0.028968459				
2	21.5	1.429602576	47.116810390	0.028968459	22.5	1.530595677
47.265376820		0.029128879				
2	22.5	1.530595677	47.265376820	0.029128879	23.5	1.624475262
47.405155850		0.029299426				
2	23.5	1.624475262	47.405155850	0.029299426	24.5	1.711658030
47.536876490		0.029478937				
2	24.5	1.711658030	47.536876490	0.029478937	25.5	1.792551616
47.661183960		0.029666406				
2	25.5	1.792551616	47.661183960	0.029666406	26.5	1.867550375
47.778651860		0.029860960				
2	26.5	1.867550375	47.778651860	0.029860960	27.5	1.937032580
47.889792300		0.030061839				
2	27.5	1.937032580	47.889792300	0.030061839	28.5	2.001358669
47.995064220		0.030268375				
2	28.5	2.001358669	47.995064220	0.030268375	29.5	2.060870301
48.094880480		0.030479985				
2	29.5	2.060870301	48.094880480	0.030479985	30.5	2.115889982
48.189613650		0.030696150				
2	30.5	2.115889982	48.189613650	0.030696150	31.5	2.166721130
48.279601100		0.030916413				
2	31.5	2.166721130	48.279601100	0.030916413	32.5	2.213648440
48.365149170		0.031140368				
2	32.5	2.213648440	48.365149170	0.031140368	33.5	2.256943216
48.446537030		0.031367651				
2	33.5	2.256943216	48.446537030	0.031367651	34.5	2.296844024
48.524018940		0.031597939				
2	34.5	2.296844024	48.524018940	0.031597939	35.5	2.333589434
48.597828280		0.031830942				
2	35.5	2.333589434	48.597828280	0.031830942	36.5	2.370334844
48.671637620		0.032063945				

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DATA WTFLG; **DATA FILE FOR WEIGHT-FOR-LENGTH;
INFILE CARDS PAD;

INPUT SEX _LG1 _LWL1 _MWLG1 _SWLG1 _LG2 _LWL2 _MWLG2 _SWLG2;
CARDS;

1	45.0	1.449036890	2.289757735	0.149236691	45.5	1.317941650
2.386172190		0.144790131				
1	45.5	1.317941650	2.386172190	0.144790131	46.5	1.041730589
2.587097922		0.136547200				
1	46.5	1.041730589	2.587097922	0.136547200	47.5	0.756615683
2.797952593		0.129156077				
1	47.5	0.756615683	2.797952593	0.129156077	48.5	0.472617587
3.017679791		0.122589498				
1	48.5	0.472617587	3.017679791	0.122589498	49.5	0.197455933
3.245225583		0.116802688				
1	49.5	0.197455933	3.245225583	0.116802688	50.5	-0.063272822
3.479567767		0.111734963				
1	50.5	-0.063272822	3.479567767	0.111734963	51.5	-0.305663778
3.719739648		0.107316407				
1	51.5	-0.305663778	3.719739648	0.107316407	52.5	-0.527210764
3.964838222		0.103474530				

1	52.5	-0.527210764	3.964838222	0.103474530	53.5	-0.726356263
4.214033476		0.100139369				
1	53.5	-0.726356263	4.214033476	0.100139369	54.5	-0.902380499
4.466562625		0.097246097				
1	54.5	-0.902380499	4.466562625	0.097246097	55.5	-1.055126826
4.721730669		0.094736440				
1	55.5	-1.055126826	4.721730669	0.094736440	56.5	-1.184933443
4.978903744		0.092558749				
1	56.5	-1.184933443	4.978903744	0.092558749	57.5	-1.292531809
5.237504753		0.090667650				
1	57.5	-1.292531809	5.237504753	0.090667650	58.5	-1.378973111
5.497008915		0.089023438				
1	58.5	-1.378973111	5.497008915	0.089023438	59.5	-1.445563111
5.756939907		0.087591418				
1	59.5	-1.445563111	5.756939907	0.087591418	60.5	-1.493801210
6.016866693		0.086341291				
1	60.5	-1.493801210	6.016866693	0.086341291	61.5	-1.525332827
6.276400575		0.085246598				
1	61.5	-1.525332827	6.276400575	0.085246598	62.5	-1.541839648
6.535195541		0.084284401				
1	62.5	-1.541839648	6.535195541	0.084284401	63.5	-1.545098045
6.792942366		0.083434649				
1	63.5	-1.545098045	6.792942366	0.083434649	64.5	-1.536863318
7.049370425		0.082680040				
1	64.5	-1.536863318	7.049370425	0.082680040	65.5	-1.518786093
7.304248994		0.082005843				
1	65.5	-1.518786093	7.304248994	0.082005843	66.5	-1.492490290
7.557381995		0.081399411				
1	66.5	-1.492490290	7.557381995	0.081399411	67.5	-1.459487925
7.808610136		0.080850107				
1	67.5	-1.459487925	7.808610136	0.080850107	68.5	-1.421167427
8.057810266		0.080349080				
1	68.5	-1.421167427	8.057810266	0.080349080	69.5	-1.378835366
8.304892397		0.079888977				
1	69.5	-1.378835366	8.304892397	0.079888977	70.5	-1.333634661
8.549802669		0.079463915				
1	70.5	-1.333634661	8.549802669	0.079463915	71.5	-1.286605147
8.792519752		0.079069193				
1	71.5	-1.286605147	8.792519752	0.079069193	72.5	-1.238665517
9.033054944		0.078701180				
1	72.5	-1.238665517	9.033054944	0.078701180	73.5	-1.190667160
9.271448675		0.078357096				
1	73.5	-1.190667160	9.271448675	0.078357096	74.5	-1.143316882
9.507773605		0.078035021				
1	74.5	-1.143316882	9.507773605	0.078035021	75.5	-1.097263403
9.742129356		0.077733651				
1	75.5	-1.097263403	9.742129356	0.077733651	76.5	-1.053083813
9.974642178		0.077452242				
1	76.5	-1.053083813	9.974642178	0.077452242	77.5	-1.011294273
10.205463310		0.077190512				
1	77.5	-1.011294273	10.205463310	0.077190512	78.5	-0.972360231
10.434767230		0.076948562				
1	78.5	-0.972360231	10.434767230	0.076948562	79.5	-0.936705887
10.662749930		0.076726804				
1	79.5	-0.936705887	10.662749930	0.076726804	80.5	-0.904722736
10.889626990		0.076525901				
1	80.5	-0.904722736	10.889626990	0.076525901	81.5	-0.876777097
11.115631770		0.076346711				
1	81.5	-0.876777097	11.115631770	0.076346711	82.5	-0.853216568
11.341013460		0.076190236				
1	82.5	-0.853216568	11.341013460	0.076190236	83.5	-0.834375406
11.566035120		0.076057579				
1	83.5	-0.834375406	11.566035120	0.076057579	84.5	-0.820578855
11.790971760		0.075949901				
1	84.5	-0.820578855	11.790971760	0.075949901	85.5	-0.812146460
12.016108280		0.075868383				
1	85.5	-0.812146460	12.016108280	0.075868383	86.5	-0.809394398
12.241737530		0.075814185				
1	86.5	-0.809394398	12.241737530	0.075814185	87.5	-0.812636889
12.468158240		0.075788413				
1	87.5	-0.812636889	12.468158240	0.075788413	88.5	-0.822186712
12.695672980		0.075792075				
1	88.5	-0.822186712	12.695672980	0.075792075	89.5	-0.838354876
12.924586130		0.075826044				

1	89.5	-0.838354876	12.924586130	0.075826044	90.5	-0.861449493
13.155201820		0.075891019				
1	90.5	-0.861449493	13.155201820	0.075891019	91.5	-0.891773904
13.387821850		0.075987476				
1	91.5	-0.891773904	13.387821850	0.075987476	92.5	-0.929617736
13.622744200		0.076115636				
1	92.5	-0.929617736	13.622744200	0.076115636	93.5	-0.975268944
13.860259860		0.076275395				
1	93.5	-0.975268944	13.860259860	0.076275395	94.5	-1.028990493
14.100652340		0.076466299				
1	94.5	-1.028990493	14.100652340	0.076466299	95.5	-1.091024455
14.344195220		0.076687482				
1	95.5	-1.091024455	14.344195220	0.076687482	96.5	-1.161574946
14.591151390		0.076937631				
1	96.5	-1.161574946	14.591151390	0.076937631	97.5	-1.240820737
14.841770070		0.077214912				
1	97.5	-1.240820737	14.841770070	0.077214912	98.5	-1.328879402
15.096287900		0.077516968				
1	98.5	-1.328879402	15.096287900	0.077516968	99.5	-1.425809463
15.354927290		0.077840877				
1	99.5	-1.425809463	15.354927290	0.077840877	100.5	-1.531575592
15.617898220		0.078183177				
1	100.5	-1.531575592	15.617898220	0.078183177	101.5	-1.646081976
15.885394640		0.078539804				
1	101.5	-1.646081976	15.885394640	0.078539804	102.5	-1.769082483
16.157602010		0.078906277				
1	102.5	-1.769082483	16.157602010	0.078906277	103.5	-1.900221246
16.434694180		0.079277694				
2	45.0	0.666839915	2.305396985	0.168969897	45.5	0.699616404
2.403256702		0.157654766				
2	45.5	0.699616404	2.403256702	0.157654766	46.5	0.747915684
2.606020484		0.139389663				
2	46.5	0.747915684	2.606020484	0.139389663	47.5	0.751754737
2.817114082		0.125837223				
2	47.5	0.751754737	2.817114082	0.125837223	48.5	0.691329975
3.035356101		0.115888948				
2	48.5	0.691329975	3.035356101	0.115888948	49.5	0.559107556
3.259693318		0.108648608				
2	49.5	0.559107556	3.259693318	0.108648608	50.5	0.361549127
3.489220170		0.103402703				
2	50.5	0.361549127	3.489220170	0.103402703	51.5	0.116436203
3.723195489		0.099599651				
2	51.5	0.116436203	3.723195489	0.099599651	52.5	-0.152509094
3.961034945		0.096830356				
2	52.5	-0.152509094	3.961034945	0.096830356	53.5	-0.421478627
4.202270022		0.094804770				
2	53.5	-0.421478627	4.202270022	0.094804770	54.5	-0.671388289
4.446476028		0.093323068				
2	54.5	-0.671388289	4.446476028	0.093323068	55.5	-0.889973526
4.693220151		0.092246459				
2	55.5	-0.889973526	4.693220151	0.092246459	56.5	-1.071844454
4.942029343		0.091473166				
2	56.5	-1.071844454	4.942029343	0.091473166	57.5	-1.216671445
5.192403337		0.090923715				
2	57.5	-1.216671445	5.192403337	0.090923715	58.5	-1.327360462
5.443830096		0.090532906				
2	58.5	-1.327360462	5.443830096	0.090532906	59.5	-1.408261687
5.695813280		0.090246768				
2	59.5	-1.408261687	5.695813280	0.090246768	60.5	-1.464051065
5.947889759		0.090021128				
2	60.5	-1.464051065	5.947889759	0.090021128	61.5	-1.499105627
6.199640267		0.089820688				
2	61.5	-1.499105627	6.199640267	0.089820688	62.5	-1.517197913
6.450695818		0.089618171				
2	62.5	-1.517197913	6.450695818	0.089618171	63.5	-1.521479703
6.700736725		0.089393174				
2	63.5	-1.521479703	6.700736725	0.089393174	64.5	-1.514481331
6.949493534		0.089131254				
2	64.5	-1.514481331	6.949493534	0.089131254	65.5	-1.498204976
7.196744733		0.088822943				
2	65.5	-1.498204976	7.196744733	0.088822943	66.5	-1.474231858
7.442313819		0.088462854				
2	66.5	-1.474231858	7.442313819	0.088462854	67.5	-1.443808911
7.686067039		0.088048963				

2	67.5	-1.443808911	7.686067039	0.088048963	68.5	-1.407959107
7.927909360		0.087581916				
2	68.5	-1.407959107	7.927909360	0.087581916	69.5	-1.367521025
8.167783677		0.087064605				
2	69.5	-1.367521025	8.167783677	0.087064605	70.5	-1.323243270
8.405666621		0.086501667				
2	70.5	-1.323243270	8.405666621	0.086501667	71.5	-1.275834578
8.641566305		0.085899159				
2	71.5	-1.275834578	8.641566305	0.085899159	72.5	-1.226014257
8.875519723		0.085264271				
2	72.5	-1.226014257	8.875519723	0.085264271	73.5	-1.174555804
9.107590221		0.084605096				
2	73.5	-1.174555804	9.107590221	0.084605096	74.5	-1.122323639
9.337865054		0.083930435				
2	74.5	-1.122323639	9.337865054	0.083930435	75.5	-1.070302348
9.566453061		0.083249631				
2	75.5	-1.070302348	9.566453061	0.083249631	76.5	-1.019617172
9.793482492		0.082572421				
2	76.5	-1.019617172	9.793482492	0.082572421	77.5	-0.971544123
10.019099020		0.081908788				
2	77.5	-0.971544123	10.019099020	0.081908788	78.5	-0.927495981
10.243464670		0.081268832				
2	78.5	-0.927495981	10.243464670	0.081268832	79.5	-0.889046221
10.466753860		0.080662561				
2	79.5	-0.889046221	10.466753860	0.080662561	80.5	-0.857844783
10.689155300		0.080099785				
2	80.5	-0.857844783	10.689155300	0.080099785	81.5	-0.835600041
10.910869240		0.079589888				
2	81.5	-0.835600041	10.910869240	0.079589888	82.5	-0.824007806
11.132107170		0.079141623				
2	82.5	-0.824007806	11.132107170	0.079141623	83.5	-0.824673085
11.353091640		0.078762888				
2	83.5	-0.824673085	11.353091640	0.078762888	84.5	-0.839021353
11.574056230		0.078460511				
2	84.5	-0.839021353	11.574056230	0.078460511	85.5	-0.868191531
11.795246970		0.078240047				
2	85.5	-0.868191531	11.795246970	0.078240047	86.5	-0.912987527
12.016920300		0.078105554				
2	86.5	-0.912987527	12.016920300	0.078105554	87.5	-0.973732843
12.239348380		0.078059544				
2	87.5	-0.973732843	12.239348380	0.078059544	88.5	-1.050238631
12.462818610		0.078102898				
2	88.5	-1.050238631	12.462818610	0.078102898	89.5	-1.141750538
12.687636270		0.078234935				
2	89.5	-1.141750538	12.687636270	0.078234935	90.5	-1.246935039
12.914126800		0.078453576				
2	90.5	-1.246935039	12.914126800	0.078453576	91.5	-1.363881842
13.142639300		0.078755652				
2	91.5	-1.363881842	13.142639300	0.078755652	92.5	-1.490235591
13.373542630		0.079137144				
2	92.5	-1.490235591	13.373542630	0.079137144	93.5	-1.623204367
13.607231970		0.079593737				
2	93.5	-1.623204367	13.607231970	0.079593737	94.5	-1.759750536
13.844122750		0.080121122				
2	94.5	-1.759750536	13.844122750	0.080121122	95.5	-1.896722704
14.084648530		0.080715361				
2	95.5	-1.896722704	14.084648530	0.080715361	96.5	-2.031079769
14.329250180		0.081372938				
2	96.5	-2.031079769	14.329250180	0.081372938	97.5	-2.159985258
14.578373340		0.082090922				
2	97.5	-2.159985258	14.578373340	0.082090922	98.5	-2.280992946
14.832455700		0.082866693				
2	98.5	-2.280992946	14.832455700	0.082866693	99.5	-2.392125361
15.091920120		0.083697706				
2	99.5	-2.392125361	15.091920120	0.083697706	100.5	-2.491985117
15.357161670		0.084580920				
2	100.5	-2.491985117	15.357161670	0.084580920	101.5	-2.579688446
15.628548490		0.085512655				
2	101.5	-2.579688446	15.628548490	0.085512655	102.5	-2.654922113
15.906409030		0.086487929				
2	102.5	-2.654922113	15.906409030	0.086487929	103.5	-2.717782155
16.191039660		0.087500575				

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DATA WTFHT; **DATA FILE FOR WEIGHT-FOR-STATURE;

INFILE CARDS PAD;

INPUT SEX _HT1 _LWHT1 _MWHT1 _SWHT1 _HT2 _LWHT2 _MWHT2 _SWHT2;

CARDS;

1	77.0	-0.999294215	10.274405270	0.077115837	77.5	-0.979897716
10.389018710		0.076995353				
1	77.5	-0.979897716	10.389018710	0.076995353	78.5	-0.943555181
10.617249010		0.076769511				
1	78.5	-0.943555181	10.617249010	0.076769511	79.5	-0.910807780
10.844329070		0.076564374				
1	79.5	-0.910807780	10.844329070	0.076564374	80.5	-0.882026316
11.070488850		0.076380766				
1	80.5	-0.882026316	11.070488850	0.076380766	81.5	-0.857561667
11.295974530		0.076219662				
1	81.5	-0.857561667	11.295974530	0.076219662	82.5	-0.837750377
11.521046550		0.076082150				
1	82.5	-0.837750377	11.521046550	0.076082150	83.5	-0.822919198
11.745977680		0.075969382				
1	83.5	-0.822919198	11.745977680	0.075969382	84.5	-0.813388595
11.971051030		0.075882537				
1	84.5	-0.813388595	11.971051030	0.075882537	85.5	-0.809475279
12.196557990		0.075822785				
1	85.5	-0.809475279	12.196557990	0.075822785	86.5	-0.811493792
12.422796300		0.075791244				
1	86.5	-0.811493792	12.422796300	0.075791244	87.5	-0.819757200
12.650067910		0.075788944				
1	87.5	-0.819757200	12.650067910	0.075788944	88.5	-0.834576932
12.878677010		0.075816790				
1	88.5	-0.834576932	12.878677010	0.075816790	89.5	-0.856261805
13.108927940		0.075875517				
1	89.5	-0.856261805	13.108927940	0.075875517	90.5	-0.885116299
13.341123140		0.075965652				
1	90.5	-0.885116299	13.341123140	0.075965652	91.5	-0.921432943
13.575561500		0.076087468				
1	91.5	-0.921432943	13.575561500	0.076087468	92.5	-0.965501267
13.812535520		0.076240931				
1	92.5	-0.965501267	13.812535520	0.076240931	93.5	-1.017588552
14.052330410		0.076425662				
1	93.5	-1.017588552	14.052330410	0.076425662	94.5	-1.077941994
14.295221850		0.076640880				
1	94.5	-1.077941994	14.295221850	0.076640880	95.5	-1.146773671
14.541474990		0.076885365				
1	95.5	-1.146773671	14.541474990	0.076885365	96.5	-1.224269596
14.791341770		0.077157390				
1	96.5	-1.224269596	14.791341770	0.077157390	97.5	-1.310558831
15.045061520		0.077454707				
1	97.5	-1.310558831	15.045061520	0.077454707	98.5	-1.405713355
15.302859490		0.077774507				
1	98.5	-1.405713355	15.302859490	0.077774507	99.5	-1.509717075
15.564948150		0.078113436				
1	99.5	-1.509717075	15.564948150	0.078113436	100.5	-1.622491233
15.831524290		0.078467542				
1	100.5	-1.622491233	15.831524290	0.078467542	101.5	-1.743825743
16.102774480		0.078832409				
1	101.5	-1.743825743	16.102774480	0.078832409	102.5	-1.873365511
16.378876780		0.079203258				
1	102.5	-1.873365511	16.378876780	0.079203258	103.5	-2.010641647
16.659998670		0.079574978				
1	103.5	-2.010641647	16.659998670	0.079574978	104.5	-2.154957918
16.946309120		0.079942558				
1	104.5	-2.154957918	16.946309120	0.079942558	105.5	-2.305458316
17.237974440		0.080301170				
1	105.5	-2.305458316	17.237974440	0.080301170	106.5	-2.461019713
17.535171340		0.080646757				
1	106.5	-2.461019713	17.535171340	0.080646757	107.5	-2.620330590
17.838082120		0.080976208				
1	107.5	-2.620330590	17.838082120	0.080976208	108.5	-2.781787762
18.146908210		0.081288100				
1	108.5	-2.781787762	18.146908210	0.081288100	109.5	-2.943638944
18.461858110		0.081582687				
1	109.5	-2.943638944	18.461858110	0.081582687	110.5	-3.103888502
18.783159360		0.081862656				
1	110.5	-3.103888502	18.783159360	0.081862656	111.5	-3.260482798
19.111039830		0.082132791				

1	111.5	-3.260482798	19.111039830	0.082132791	112.5	-3.411305599
19.445728030		0.082400213				
1	112.5	-3.411305599	19.445728030	0.082400213	113.5	-3.554288672
19.787440040		0.082674023				
1	113.5	-3.554288672	19.787440040	0.082674023	114.5	-3.687600863
20.136355630		0.082964333				
1	114.5	-3.687600863	20.136355630	0.082964333	115.5	-3.809599339
20.492621110		0.083282267				
1	115.5	-3.809599339	20.492621110	0.083282267	116.5	-3.919005213
20.856325420		0.083638758				
1	116.5	-3.919005213	20.856325420	0.083638758	117.5	-4.014882272
21.227498900		0.084044246				
1	117.5	-4.014882272	21.227498900	0.084044246	118.5	-4.096683061
21.606103660		0.084508001				
1	118.5	-4.096683061	21.606103660	0.084508001	119.5	-4.164160421
21.992040700		0.085038256				
1	119.5	-4.164160421	21.992040700	0.085038256	120.5	-4.217425718
22.385138200		0.085641503				
1	120.5	-4.217425718	22.385138200	0.085641503	121.5	-4.256802224
22.785166280		0.086323118				
2	77.0	-0.957840869	10.086532190	0.081713853	77.5	-0.935908436
10.198683510		0.081394448				
2	77.5	-0.935908436	10.198683510	0.081394448	78.5	-0.896210420
10.422173240		0.080780644				
2	78.5	-0.896210420	10.422173240	0.080780644	79.5	-0.863423474
10.644736590		0.080208403				
2	79.5	-0.863423474	10.644736590	0.080208403	80.5	-0.839250279
10.866571460		0.079687207				
2	80.5	-0.839250279	10.866571460	0.079687207	81.5	-0.825395013
11.087887140		0.079225952				
2	81.5	-0.825395013	11.087887140	0.079225952	82.5	-0.823487667
11.308903970		0.078832728				
2	82.5	-0.823487667	11.308903970	0.078832728	83.5	-0.834997067
11.529853310		0.078514592				
2	83.5	-0.834997067	11.529853310	0.078514592	84.5	-0.861125495
11.750978720		0.078277372				
2	84.5	-0.861125495	11.750978720	0.078277372	85.5	-0.902755880
11.972534160		0.078125431				
2	85.5	-0.902755880	11.972534160	0.078125431	86.5	-0.960308955
12.194788830		0.078061602				
2	86.5	-0.960308955	12.194788830	0.078061602	87.5	-1.033704489
12.418026820		0.078087089				
2	87.5	-1.033704489	12.418026820	0.078087089	88.5	-1.122303405
12.642549630		0.078201515				
2	88.5	-1.122303405	12.642549630	0.078201515	89.5	-1.224887418
12.868678510		0.078403060				
2	89.5	-1.224887418	12.868678510	0.078403060	90.5	-1.339655646
13.096757860		0.078688751				
2	90.5	-1.339655646	13.096757860	0.078688751	91.5	-1.464342037
13.327152020		0.079054697				
2	91.5	-1.464342037	13.327152020	0.079054697	92.5	-1.596224732
13.560251560		0.079496621				
2	92.5	-1.596224732	13.560251560	0.079496621	93.5	-1.732305592
13.796467930		0.080010179				
2	93.5	-1.732305592	13.796467930	0.080010179	94.5	-1.869440665
14.036231650		0.080591346				
2	94.5	-1.869440665	14.036231650	0.080591346	95.5	-2.004558693
14.279982320		0.081236502				
2	95.5	-2.004558693	14.279982320	0.081236502	96.5	-2.134764169
14.528165800		0.081942620				
2	96.5	-2.134764169	14.528165800	0.081942620	97.5	-2.257524917
14.781221960		0.082707038				
2	97.5	-2.257524917	14.781221960	0.082707038	98.5	-2.370762249
15.039577460		0.083527227				
2	98.5	-2.370762249	15.039577460	0.083527227	99.5	-2.472965302
15.303633030		0.084400264				
2	99.5	-2.472965302	15.303633030	0.084400264	100.5	-2.563140425
15.573763400		0.085322654				
2	100.5	-2.563140425	15.573763400	0.085322654	101.5	-2.640873937
15.850304300		0.086289668				
2	101.5	-2.640873937	15.850304300	0.086289668	102.5	-2.706178899
16.133559300		0.087295416				
2	102.5	-2.706178899	16.133559300	0.087295416	103.5	-2.759500412
16.423790370		0.088332358				

2	103.5	-2.759500412	16.423790370	0.088332358	104.5	-2.801578893
16.721223080		0.089391426				
2	104.5	-2.801578893	16.721223080	0.089391426	105.5	-2.833376069
17.026046170		0.090461996				
2	105.5	-2.833376069	17.026046170	0.090461996	106.5	-2.855987198
17.338413690		0.091532010				
2	106.5	-2.855987198	17.338413690	0.091532010	107.5	-2.870584724
17.658444860		0.092588053				
2	107.5	-2.870584724	17.658444860	0.092588053	108.5	-2.878341197
17.986227850		0.093615622				
2	108.5	-2.878341197	17.986227850	0.093615622	109.5	-2.880404823
18.321818290		0.094599184				
2	109.5	-2.880404823	18.321818290	0.094599184	110.5	-2.877853767
18.665241940		0.095522442				
2	110.5	-2.877853767	18.665241940	0.095522442	111.5	-2.871676584
19.016494570		0.096368448				
2	111.5	-2.871676584	19.016494570	0.096368448	112.5	-2.862774660
19.375539570		0.097119646				
2	112.5	-2.862774660	19.375539570	0.097119646	113.5	-2.851915004
19.742313480		0.097758211				
2	113.5	-2.851915004	19.742313480	0.097758211	114.5	-2.839760032
20.116720140		0.098265916				
2	114.5	-2.839760032	20.116720140	0.098265916	115.5	-2.826824189
20.498636300		0.098624434				
2	115.5	-2.826824189	20.498636300	0.098624434	116.5	-2.813480089
20.887909140		0.098815290				
2	116.5	-2.813480089	20.887909140	0.098815290	117.5	-2.799924586
21.284359650		0.098820000				
2	117.5	-2.799924586	21.284359650	0.098820000	118.5	-2.786142221
21.687785400		0.098620143				
2	118.5	-2.786142221	21.687785400	0.098620143	119.5	-2.771843402
22.097965710		0.098197431				
2	119.5	-2.771843402	22.097965710	0.098197431	120.5	-2.756365595
22.514669770		0.097533789				
2	120.5	-2.756365595	22.514669770	0.097533789	121.5	-2.738514883
22.937669710		0.096611430				

```

;
DATA LGFAGE; SET LGFAGE;
  _AGECAT=_AGEMOS1;
  PROC SORT DATA=LGFAGE; BY SEX _AGECAT;

DATA HTFAGE; SET HTFAGE;
  _AGECAT=_AGEMOS1;
  PROC SORT DATA=HTFAGE; BY SEX _AGECAT;

DATA WTFAGE; SET WTFAGE;
  _AGECAT=_AGEMOS1;
  PROC SORT DATA=WTFAGE; BY SEX _AGECAT;

DATA BMIFAGE; SET BMIFAGE;
  _AGECAT=_AGEMOS1;
  PROC SORT DATA=BMIFAGE; BY SEX _AGECAT;

DATA HCFAGE; SET HCFAGE;
  _AGECAT=_AGEMOS1;
  PROC SORT DATA=HCFAGE; BY SEX _AGECAT;

DATA REFFAGE; MERGE LGFAGE HTFAGE WTFAGE BMIFAGE HCFAGE; BY SEX _AGECAT;

DATA REFFLG; SET WTFLG;
  _HTCAT=_LG1;
  PROC SORT DATA=REFFLG; BY SEX _HTCAT;

DATA REFFHT; SET WTFHT;
  _HTCAT=_HT1;
  PROC SORT DATA=REFFHT; BY SEX _HTCAT;

DATA FINFAGE
;
  MERGE _INDATA1 (IN=A) REFFAGE (IN=B); BY SEX _AGECAT;
IF A;

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IF (LENGTH LT 20 OR LENGTH GT 300) THEN DO;
  _LLG=.; _MLG=.; _SLG=.;
  LGZ=.; LGPCT=.; *FOR MISSING VALUES;
END;
ELSE DO;
  _LLG = ((AGEMOS-_AGEMOS1)*(_LLG2-_LLG1)/(_AGEMOS2-_AGEMOS1)+_LLG1);
  _MLG = ((AGEMOS-_AGEMOS1)*(_MLG2-_MLG1)/(_AGEMOS2-_AGEMOS1)+_MLG1);
  _SLG = ((AGEMOS-_AGEMOS1)*(_SLG2-_SLG1)/(_AGEMOS2-_AGEMOS1)+_SLG1);
  IF (_LLG GT -0.01 AND _LLG LT 0.01) THEN LGZ=LOG(LENGTH/_MLG)/_SLG;
  ELSE LGZ=((LENGTH/_MLG)**_LLG-1)/(_LLG*_SLG);
  LGPCT=PROBNORM(LGZ)*100;
END;

IF (STATURE LT 20 OR STATURE GT 300) THEN DO;
  _LHT=.; _MHT=.; _SHT=.;
  STZ=.; STPCT=.; *FOR MISSING VALUES;
END;
ELSE DO;
  _LHT = ((AGEMOS-_AGEMOS1)*(_LHT2-_LHT1)/(_AGEMOS2-_AGEMOS1)+_LHT1);
  _MHT = ((AGEMOS-_AGEMOS1)*(_MHT2-_MHT1)/(_AGEMOS2-_AGEMOS1)+_MHT1);
  _SHT = ((AGEMOS-_AGEMOS1)*(_SHT2-_SHT1)/(_AGEMOS2-_AGEMOS1)+_SHT1);
  IF (_LHT GT -0.01 AND _LHT LT 0.01) THEN STZ=LOG(STATURE/_MHT)/_SHT;
  ELSE STZ=((STATURE/_MHT)**_LHT-1)/(_LHT*_SHT);
  STPCT=PROBNORM(STZ)*100;
END;

IF (AGEMOS LT 0 OR AGEMOS GT 240) OR
  (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
  _LWT=.; _MWT=.; _SWT=.;
  WAZ=.; WTPCT=.; *FOR MISSING VALUES;
END;
ELSE DO;
  _LWT = ((AGEMOS-_AGEMOS1)*(_LWT2-_LWT1)/(_AGEMOS2-_AGEMOS1)+_LWT1);
  _MWT = ((AGEMOS-_AGEMOS1)*(_MWT2-_MWT1)/(_AGEMOS2-_AGEMOS1)+_MWT1);
  _SWT = ((AGEMOS-_AGEMOS1)*(_SWT2-_SWT1)/(_AGEMOS2-_AGEMOS1)+_SWT1);
  IF (_LWT GT -0.01 AND _LWT LT 0.01) THEN WAZ=LOG(WEIGHT/_MWT)/_SWT;
  ELSE WAZ=((WEIGHT/_MWT)**_LWT-1)/(_LWT*_SWT);
  WTPCT=PROBNORM(WAZ)*100;
END;

IF (AGEMOS LT 24 OR AGEMOS GT 240) OR
  (BMI LT 2 OR BMI GT 80) THEN DO;
  _LBMI=.; _MBMI=.; _SBMI=.;
  BMIZ=.; BMIPCT=.; *FOR MISSING VALUES;
END;
ELSE DO;
  _LBMI = ((AGEMOS-_AGEMOS1)*(_LBMI2-_LBMI1)/(_AGEMOS2-_AGEMOS1)+_LBMI1);
  _MBMI = ((AGEMOS-_AGEMOS1)*(_MBMI2-_MBMI1)/(_AGEMOS2-_AGEMOS1)+_MBMI1);
  _SBMI = ((AGEMOS-_AGEMOS1)*(_SBMI2-_SBMI1)/(_AGEMOS2-_AGEMOS1)+_SBMI1);
  IF (_LBMI GT -0.01 AND _LBMI LT 0.01) THEN BMIZ=LOG(BMI/_MBMI)/_SBMI;
  ELSE BMIZ=((BMI/_MBMI)**_LBMI-1)/(_LBMI*_SBMI);
  BMIPCT=ROUND(PROBNORM(BMIZ)*100,1);
END;

IF (AGEMOS LT 0 OR AGEMOS GT 36) OR
  (HEADCIR LT 0.5 OR HEADCIR GT 100) THEN DO;
  _LHC=.; _MHC=.; _SHC=.;
  HCZ=.; HCPCT=.; *FOR MISSING VALUES;
END;
ELSE DO;
  _LHC = ((AGEMOS-_AGEMOS1)*(_LHC2-_LHC1)/(_AGEMOS2-_AGEMOS1)+_LHC1);
  _MHC = ((AGEMOS-_AGEMOS1)*(_MHC2-_MHC1)/(_AGEMOS2-_AGEMOS1)+_MHC1);
  _SHC = ((AGEMOS-_AGEMOS1)*(_SHC2-_SHC1)/(_AGEMOS2-_AGEMOS1)+_SHC1);
  IF (_LHC GT -0.01 AND _LHC LT 0.01) THEN HCZ=LOG(HEADCIR/_MHC)/_SHC;
  ELSE HCZ=((HEADCIR/_MHC)**_LHC-1)/(_LHC*_SHC);
  HCPCT=PROBNORM(HCZ)*100;
END;

DROP _LLG _MLG _SLG _LLG1 _LLG2 _MLG1 _MLG2 _SLG1 _SLG2
  _LHT _MHT _SHT _LWT _MWT _SWT _LBMI _MBMI _SBMI _LHC _MHC _SHC
  _LHT1 _LHT2 _MHT1 _MHT2 _SHT1 _SHT2
  _LWT1 _LWT2 _MWT1 _MWT2 _SWT1 _SWT2
  _LBMI1 _LBMI2 _MBMI1 _MBMI2 _SBMI1 _SBMI2

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    _LHC1 _LHC2 _MHC1 _MHC2 _SHC1 _SHC2 _AGEMOS1 _AGEMOS2;

PROC SORT DATA=FINFAGE; BY SEX _AGECAT _ID;

DATA FINFLG; MERGE _INDATA2 (IN=A) REFFLG (IN=B); BY SEX _HTCAT;
  IF A;
  IF (LENGTH LT 45 OR LENGTH GT 103.5) OR
    (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
    _LWLT=.; _MWLT=.; _SWLT=.;
    WLZ=.; WLPCT=.;          *FOR MISSING VALUES;
  END;
  ELSE DO;
    _LWLT = ((LENGTH-_LG1)*(_LWL2-_LWL1)/(_LG2-_LG1)+_LWL1);
    _MWLT = ((LENGTH-_LG1)*(_MWL2-_MWL1)/(_LG2-_LG1)+_MWL1);
    _SWLT = ((LENGTH-_LG1)*(_SWL2-_SWL1)/(_LG2-_LG1)+_SWL1);
    IF (_LWLT GT -0.01 AND _LWLT LT 0.01) THEN WLZ=LOG(WEIGHT/_MWLT)/_SWLT;
    ELSE WLZ=((WEIGHT/_MWLT)**_LWLT-1)/(_LWLT*_SWLT);
    WLPCT=PROBNORM(WLZ)*100;
  END;
  DROP _LG1 _LG2 _HTCAT _LWLT _MWLT _SWLT _LWL1 _LWL2 _MWL1 _MWL2 _SWL1 _SWL2;
PROC SORT DATA=FINFLG; BY SEX _AGECAT _ID;

DATA FINFHT; MERGE _INDATA3 (IN=A) REFFHT (IN=B); BY SEX _HTCAT;
  IF A;
  IF (STATURE LT 77 OR STATURE GT 121.5) OR
    (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
    _LWHT=.; _MWHT=.; _SWHT=.;
    WSZ=.; WSPCT=.;          *FOR MISSING VALUES;
  END;
  ELSE DO;
    _LWHT = ((STATURE-_HT1)*(_LWHT2-_LWHT1)/(_HT2-_HT1)+_LWHT1);
    _MWHT = ((STATURE-_HT1)*(_MWHT2-_MWHT1)/(_HT2-_HT1)+_MWHT1);
    _SWHT = ((STATURE-_HT1)*(_SWHT2-_SWHT1)/(_HT2-_HT1)+_SWHT1);
    IF (_LWHT GT -0.01 AND _LWHT LT 0.01) THEN WSZ=LOG(WEIGHT/_MWHT)/_SWHT;
    ELSE WSZ=((WEIGHT/_MWHT)**_LWHT-1)/(_LWHT*_SWHT);
    WSPCT=PROBNORM(WSZ)*100;
  END;
  DROP _HT1 _HT2 _HTCAT _LWHT _MWHT _SWHT _LWHT1 _LWHT2 _MWHT1 _MWHT2 _SWHT1 _SWHT2;
PROC SORT DATA=FINFHT; BY SEX _AGECAT _ID;

DATA _INDATA; MERGE FINFAGE FINFLG FINFHT; BY SEX _AGECAT _ID;
  IF RECUMBNT=1 THEN DO;
    HAZ=LGZ; HTPCT=LGPCT;
    WHZ=WLZ; WHPCT=WLPCT;
  END;
  ELSE IF RECUMBNT=0 THEN DO;
    HAZ=STZ; HTPCT=STPCT;
    WHZ=WSZ; WHPCT=WSPCT;
  END;
  ELSE DO;
    HAZ=.; HTPCT=.;
    WHZ=.; WHPCT=.;
  END;

DROP _AGECAT _ID LGZ LGPCT STZ STPCT WLZ WLPCT WSZ WSPCT LENGTH STATURE;

RUN;

```

F.7 CONSTRUCT\CONVARC.SAS - CONSTRUCT VARIABLES FOR ANALYSIS.

```

*****
* PROGRAM:      CONVARC.SAS
* WRITTEN:      5/23/2000 BY NATALIE JUSTH
* UPDATED:      8/21/2001 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:      10/4/2002 BY NATALIE JUSTH FOR 2002 SURVEY
* UPDATED:      8/29/2003 BY NATALIE JUSTH FOR 2003 SURVEY
* UPDATED:      10/20/2004 BY LUCY LU FOR 2004 SURVEY. ADD CODE TO CREATE
*
*              XBMI AND XBMICAT
* UPDATED:      12/06/2004 BY JACQUELINE AGUFA FOR 2004 SURVEY. UPDATED CODE TO CREATE
*              XBMI AND XBMICAT
* UPDATE:       12/27/05 BY LUCY LU FOR 2005 CHILD SURVEY
*
* PURPOSE:      TO CREATE 5 INDEPENDENT VARIABLES: XENRLMT, XENR_PCM, XINS_COV,
*              XBNFGRP
*              1 INDEPENDENT VARIABLE ALREADY CREATED FROM DEERS-BFGROUPP
*              TO CREATE 24 DEPENDENT VARIABLES: KBGPRB1,
*              KBGPRB2, KMILWAT1, KCIVWAT1, KMILOFFC, KCIVOFFC, KMILOP,
*              KCIVOP, KCIVINS,
* INPUT:         ..\..\DATA\CFINAL\SELECTC.SD2
* OUTPUT:        ..\..\DATA\CFINAL\CONVARC.SD2
*****
* ;

LIBNAME IN      v612 '..\..\DATA\CFINAL';
*LIBNAME INBMI  v612 '..';
LIBNAME LIBRARY v612 '..\..\DATA\CFINAL\FMTLIB';
OPTIONS PS=79 LS=132 ERRORS=2;
TITLE1 '2005 Health Care Survey of DoD Beneficiaries Study - Child';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';

*****
* Calculate XBMI- Body Mass Index and XBMICAT- Body Mass Index Category.
* Define 5th, 85th, 95th percentile based on CDC 2000 Growth Chart for age 2-20.
* The Age in years is created at the half year point for the entire year to be
* consistent with the definition of month per CDC.
* 5th, 85th, 95th percentile data is downloaded at CDC website:
* http://www.cdc.gov/nchs/about/major/nhanes/growthcharts/datafiles.htm
* Lucy Lu 10/21/04
****Changed to use output from creatbmi.sas Jacqueline Agufa 12/06/04
*****;

DATA BMI(RENAME=(BMIPCT=XBMIPT OVER=XBMICAT));
  SET IN.CREATBMI;

  FORMAT _ALL_;

RUN;

PROC SORT DATA=BMI; BY MPRID; RUN;
PROC SORT DATA=IN.SELECTC OUT=SELECTC; BY MPRID; RUN;

DATA IN.CONVARC (KEEP = XENRLMT XENR_PCM XINS_COV /*REGSMPL*/ XTNEXREG
                  ENBGSMPL XBNFGRP XBMIPT XBMICAT
                  /*KMILWAT1 KCIVWAT1*/ KMILOFFC
                  KCIVOFFC KBGPRB1 KBGPRB2
                  KMILOP KCIVOP
                  MPRID KCIVINS EXCLUDE)
  CONVARC;
MERGE BMI(IN=A) SELECTC(IN=B);

  BY MPRID;

  IF B;

  LENGTH

```

```

XBMIPT  4.
XBMIAT  3.
XTNEXREG 3.
;

```

LABEL

```

XENRLLMT = "Enrollment in TRICARE Prime"
XENR_PCM = "Enrollment by PCM type"
XINS_COV = "Insurance Coverage"
/*REGSMPL = "Health Care regions " */
XBNFGRP = "Constructed Beneficiary Group"
/*KMILWAT1 = "Wait <=4 wks for well patient visit-Mil"
KCIVWAT1 = "Wait <=4 wks for well patient visit-Civ"*/
KMILOFFC = "Office wait of >15 min-Mil"
KCIVOFFC = "Office wait of >15 min-Civ"
KBGPRB1 = "Big problem getting referrals to spclst"
KBGPRB2 = "Big problem getting necessary care"
KMILOP = "Outpatient visits to Military facility"
KCIVOP = "Outpatient visits to Civilian facility"
KCIVINS = "Beneficiary covered by civilian insurance"
XBMIPT = "Body Mass Index Child Percentile"
XBMIAT = "Body Mass Index Category"
XTNEXREG = "TNEX Region"
;

```

FORMAT

```

XENRLLMT ENROLL.
XENR_PCM PCM.
XINS_COV INSURE.
/* REGSMPL CREG. */
XBNFGRP XBGC_S.
/*KMILWAT1 HAYNN.
KCIVWAT1 HAYNN.*/
KMILOFFC HAYNN.
KCIVOFFC HAYNN.
KBGPRB1 HAYNN.
KBGPRB2 HAYNN.
KMILOP CTIMES.
KCIVOP CTIMES.
KCIVINS HAYNN2_.
XBMIAT BMICAT.
XTNEXREG TNEX.
;

```

```

/* CREATE INDEPENDENT VARIABLES */

```

```

/* XENRLLMT--ENROLLMENT STATUS */

```

```

IF ENBGSMPL IN ('01','02','03','05','06') THEN XENRLLMT = 1; /* Enrolled */
ELSE IF ENBGSMPL IN ('04','07') THEN XENRLLMT = 2; /* Not Enrolled */

```

```

/* XENR_PCM--ENROLLMENT BY PCM TYPE */

```

```

IF ENBGSMPL IN ('01','03','06') THEN XENR_PCM=1; /* 1=Enrolled - mil PCM */
ELSE IF ENBGSMPL IN ('02','05') THEN XENR_PCM=2; /* 2=Enrolled - civ PCM */
ELSE IF ENBGSMPL IN ('04','07') THEN XENR_PCM=3; /* 3=Not Enrolled */

```

```

/* XINS_COV--INSURANCE COVERAGE */

```

```

IF C05003 = 1 THEN XINS_COV = 1; /* Prime */
ELSE IF C05003 = 3 THEN XINS_COV = 2; /* Standard/Extra */
ELSE IF C05003 IN (5,6,7,8,9) THEN XINS_COV = 3; /* Other Insurance */

```

```

/* CREATE XTNEXREG. JMA 1/17/06*/

```

```

/* IF TNEEXREG IN ('N') THEN XTNEEXREG=1;
ELSE IF TNEEXREG IN ('S') THEN XTNEEXREG=2;
ELSE IF TNEEXREG IN ('W') THEN XTNEEXREG=3;
ELSE IF TNEEXREG IN ('O') THEN XTNEEXREG=4;
*/

```

```

IF DHSRGN IN ('01','02','05') THEN XTNEEXREG=1;
ELSE IF DHSRGN IN ('03','04','06') THEN XTNEEXREG=2;

```

```

ELSE IF DHSRGN IN ('07','08','09','10','11','12','AK') THEN XTNEXREG=3;
ELSE IF DHSRGN IN ('13','14','15') THEN XTNEXREG=4;
ELSE IF DHSRGN IN ('16') THEN XTNEXREG=.;

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty
and Family Members of Active Duty */
XBNFGRP=BGCSMPL;

/* KMILWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT MIL FACILITIES
KCIVWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT CIV FACILITIES*/

/*IN Q3 2004 THERE IS NO QUESTIONS FOR WELL-PATIENT CARE, LLU 10/21/04
*IF C05005 = 1 THEN DO; /* Military */
*IF C03030 IN (1, 2, 3) THEN KMILWAT1 = 1; /* Yes */
*ELSE IF C03030 = 4 THEN KMILWAT1 = 2; /* No */
*END;
*ELSE IF C05005 = 2 THEN DO; /* Civilian */
*IF C03030 IN (1, 2, 3) THEN KCIVWAT1 = 1; /* Yes */
*ELSE IF C03030 = 4 THEN KCIVWAT1 = 2; /* No */
*END;

/* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES
KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
IF C05005 = 1 THEN DO; /* Military */
IF C05035 IN (1,2) THEN KMILOFFC = 1; /* Yes */
ELSE IF C05035 IN (3,4) THEN KMILOFFC = 2; /* No */
END;
ELSE IF C05005 = 2 THEN DO; /* Civilian */
IF C05035 IN (1,2) THEN KCIVOFFC = 1; /* Yes */
ELSE IF C05035 IN (3,4) THEN KCIVOFFC = 2; /* No */
END;

/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
IF C05019 = 1 THEN KBGPRB1 = 1; /* YES */
ELSE IF C05019 IN (2,3) THEN KBGPRB1 = 2; /* NO */

/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */
IF C05032 = 1 THEN KBGPRB2 = 1; /* YES */
ELSE IF C05032 IN (2,3) THEN KBGPRB2 = 2; /* NO */

/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY
KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF C05005 = 1 THEN KMILOP=C05030;
ELSE IF (C05005=. AND C05030=.) THEN KMILOP=.;
ELSE KMILOP = 1 ;
IF C05005 = 2 THEN KCIVOP=C05030;
ELSE IF (C05005=. AND C05030=.) THEN KCIVOP=.;
ELSE KCIVOP = 1 ;

/* KCIVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
IF (C05002C=1 OR C05002D=1 OR C05002E=1 OR C05002G=1) THEN KCIVINS=1; /* YES */
ELSE KCIVINS=2; /* NO */

RUN;

/* CHECK 2005 VARIABLES */
PROC FREQ DATA=CONVARC;
TABLES XENRLLMT XENR_PCM XINS_COV XBNFGRP TNEXREG /*REGSMPL */
DHSRGN XTNEXREG KBGPRB1 KBGPRB2
/*KMILWAT1 KCIVWAT1*/ KMILOFFC KCIVOFFC
KMILOP KCIVOP KCIVINS
FIELDAGE XBMIPCT XBMICAT
/ MISSING LIST;
TITLE3 'ONE WAY FREQUENCIES 2005 CONSTRUCTED VARIABLES';
RUN;

PROC FREQ DATA=CONVARC;
TABLES ENBGSMPL*XENRLLMT
ENBGSMPL*XENR_PCM
XENRLLMT*C05003*XINS_COV

```

```

/*REGSMPL*/
BGCSMPL*XBNFGRP
/*C05005*C03030 *KMILWAT1*KCIVWAT1*/
C05005*C05035 *KMILOFFC*KCIVOFFC
C05019 *KBGPRB1
C05032 *KBGPRB2
C05005*C05030 *KMILOP
C05005*C05030 *KCIVOP
C05002C*C05002D*C05002E*C05002F*KCIVINS
C05093F*C05093I*C05094*XBMICAT
C05093F*C05093I*C05094*EXCLUDE

/ MISSING LIST;
TITLE3 'CROSSTABS ON ALL NEW VARIABLES';
RUN;

PROC FREQ DATA=CONVARC;
TABLES EXCLUDE C05093F C05093I C05094

/ MISSING LIST;
WHERE fnstatus=11;
TITLE3 'respondents-CROSSTABS ON ALL NEW VARIABLES';
RUN;

PROC FREQ DATA=CONVARC;
tables /*TNEXREG*XTNEXREG*/

DHSRGN*XTNEXREG

/ MISSING LIST;
format _all_;
run;

PROC FREQ DATA=CONVARC;
tables C05093F*C05093I*C05094*XBMICAT
/ MISSPRINT LIST;
WHERE XBMICAT<0 ;
TITLE 'CHECK MISSING XBMICAT';
run;

PROC CONTENTS DATA =IN.CONVARC;
RUN;

```

F.8 CONSTRUCT\MERGE.C.SAS - MERGE CONSTRUCTED VARIABLES ONTO DATA FILE.

```

*****
* PROGRAM:    MERGEC.SAS
* WRITTEN:    5/23/00 BY NATALIE JUSTH
* UPDATED:    8/23/01 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:    10/4/02 BY NATALIE JUSTH FOR 2002 SURVEY
* UPDATED:    8/29/03 BY NATALIE JUSTH FOR 2003 SURVEY
* UPDATED:    10/22/04 BY LUCY LU FOR 2004 SURVEY
*            11/10/2004 BY LUCY LU, DROP VARIABLE STIELIG.
* UPDATED:    12/27/06 BY LUCY LU FOR Q3 2005 SURVEY
* UPDATE:     2/21/05 BY JACQUELINE AGUFA SET "EXCLUDED" CASES FROM CREATBMI TO
*            "Out of Range"
*
* PURPOSE:    TO MERGE FINAL FILES TOGETHER AND REORDER BY VARIABLE TYPE
*            TO reorder variables within the record use a
*            LENGTH statement before the SET statement.
*            Make sure that MPRID is the first variable in the
*            record followed by:
*                1) other sampling variables
*                2) DEERS variables
*                3) Post-stratification vars
*                4) questionnaire responses
*                5) NRC variables
*                6) recoded questionnaire responses
*                7) coding scheme flags
*                8) constructed variables
*                9) weights (NOT AVAILABLE FOR PRELIMINARY DATA)
* INPUT:      ...\\DATA\CFINAL\SELECTC.SD2
*            ...\\DATA\CFINAL\CONVARC.SD2
* OUTPUT:     ...\\DATA\CFINAL\MERGEC.SD2
*****
* ;

LIBNAME IN v612 '..\\DATA\CFINAL';
LIBNAME OUT v612 '..\\DATA\CFINAL';
LIBNAME LIBRARY v612 '..\\DATA\CFINAL\FMTLIB';
OPTIONS PS=75 LS=111 ERRORS=2 COMPRESS=YES;

PROC SORT DATA=IN.SELECTC OUT=SELECTC;
BY MPRID;
RUN;

PROC SORT DATA=IN.CONVARC OUT=CONVARC;
BY MPRID;
RUN;

DATA MERGEC(DROP=
C05001_O
C05002AO
C05002BO
C05002CO
C05002DO
C05002EO
C05002FO
C05002GO
C05002HO
C05002IO
C05003_O
C05004_O
C05005_O
C05006_O
C05007_O
C05008_O
C05009_O
C05010_O
C05011_O
C05012_O
C05013_O
C05014_O
C05015_O

```

C05016_O
C05017_O
C05018_O
C05019_O
C05020_O
C05021_O
C05022_O
C05023_O
C05024_O
C05025_O
C05026_O
C05027_O
C05028_O
C05029_O
C05030_O
C05031_O
C05032_O
C05033_O
C05034_O
C05035_O
C05036_O
C05037_O
C05038_O
C05039_O
C05040_O
C05041_O
C05042_O
C05043_O
C05044_O
C05045_O
C05046_O
C05047_O
C05048_O
C05049_O
C05050_O
C05051_O
C05052_O
C05053_O
C05054_O
C05055_O
C05056_O
C05057_O
C05058_O
C05059_O
C05060_O
C05061_O
C05062_O
C05063_O
C05064_O
C05065_O
C05066_O
C05067_O
C05068_O
C05069_O
C05070_O
C05071_O
C05072_O
C05073_O
C05074_O
C05075_O
C05076_O
C05077_O
C05078_O
C05079_O
C05080_O
C05081_O
C05082_O
C05083_O
C05084_O
C05085_O
C05086_O
C05087_O
C05088_O
C05089_O

```

C05090AO
C05090BO
C05090CO
C05090DO
C05091_O
C05092_O
C05093FO
C05093IO
C05094_O
C05095_O
C05096_O
C05097_O
C05098_O
C05099_O
C05100_O
C05101_O
C05102_O
C05103_O
C05104_O
C05105_O
C05106AO
C05106BO
C05106CO
C05106DO
C05106EO
C05107_O
C05108_O
C05109_O
C05110_O
C05111_O
C05105AO
C05105BO
C05105CO
C05105DO
C05105EO

C05093FN
C05093IN
C05094N
C05103N

CMNTFLAG
ENLSMPL2
DHSRGN

EXCLUDE
);
MERGE SELECTC(in=hcsdb RENAME=(FLAG_FIN=OLDFIN)) CONVARC ;
BY MPRID;
if hcsdb;

/****JMA FEB 2006 using results from CreatbMI to determine
out of range height and weight values. Non missing values
are set to .O if the case met the exclusion criterion.
*****/
IF Exclude IN (1, 2, 3) THEN DO;
C05093F=.O;
C05093I=.O;
C05094 =.O;
END;

FLAG_FIN=PUT(OLDFIN,4.); *12/27/05 LLU;
DROP OLDFIN;

FORMAT
AGESMPL AGESMPL.
BGCSMPL XBGC_S.
ENBGSMPL $ENBGS.
MRTLSTAT $MSTATUS.
RACEETHN $RACECD.
PCM $PCM.
LEGDDSCD $DDSFMT.
PNLCATCD $PNLCAT.
MBRRELCD $MBRREL.

```

```

DBENCAT          $BENCAT.
DMEDELG          $MEDELG.
DSPONSVC         $SPONSVC.
MEDTYPE         $MEDTYP.
LEGDDSCD        $DDSFMT.
FLAG_FIN        $final.
CONUS           CONUSMHS.
PATCAT          $AGGBCAT.
MISS_1          HAMISS.
MISS_4          HAMISS.
MISS_5          HAMISS.
MISS_6          HAMISS.
MISS_7          HAMISS.
MISS_8          HAMISS.
MISS_9          HAMISS.
MISS_TOT        HAMISS.
/* REGSMPL      CREGSMPL. */
MPCSMPL         MPCSMPL.
SVCSMPL         SVCSMPL.
SEXSMPL         HASEX.
ENLSMPL         ENLSMP.
FNSTATUS        FNSTATS.
DHSRGN         $DHSRGN.
WEB            WEB.
XBMICAT        BMICAT.
XTNEXREG        TNEEX.
TNEXREG        $TNEXREG.
TNEXSMPL        TNEEX.
ENRID          $MISSCHR.
ACV            $ACV2_.
KATRINA         KATRINA.
;

LABEL
  ONTIME        = "On time indicator"
  WEB           = "Web/mail-out survey indicator"
  KATRINA       = "Resp. from Hurricane Katrina hitting area"
  FLAG_FIN     = "Final Disposition"
  PCM          = "Primary Manager Code (CIV or MIL)"
;

```

RUN;

DATA OUT.MERGE;

LENGTH

```

MPRID           $ 8      /* ID */
MPCSMPL         5      /* sampling variable */
SVCSMPL         5      /* sampling variable */
SEXSMPL         5      /* sampling variable */
AGESMPL         8      /* sampling variable */
BGCSMPL         8      /* sampling variable */
/* REGSMPL      3 */   /* sampling variable */
ENBGSMPL        $ 2    /* sampling variable */
STRATUM         $ 3    /* sampling variable */
TNEXREG         $ 1    /* sampling variable */
TNEXSMPL        8      /* sampling variable */
E1              $ 1    /* sampling variable */
E2              $ 1    /* sampling variable */
E3              $ 1    /* sampling variable */
E4              $ 1    /* sampling variable */
E5              $ 1    /* sampling variable */

MRTLSTAT        $ 1    /* DEERS variable */
RACEETHN        $ 1    /* DEERS variable */
DAGEQY          $ 3    /* DEERS variable */
FIELDAGE        $ 3    /* DEERS variable */
PCM             $ 3    /* DEERS variable */
LEGDDSCD        $ 2    /* DEERS variable */
PNLCATCD        $ 1    /* DEERS variable */
MBRRELCD        $ 1    /* DEERS variable */
DBENCAT         $ 3    /* DEERS variable */

```

DMEDELG	\$ 1	/* DEERS variable	*/
DSPONSVC	\$ 1	/* DEERS variable	*/
MEDTYPE	\$ 1	/* DEERS variable	*/
PATCAT	\$ 7	/* DEERS variable	*/
ENRID	\$ 4	/* DEERS variable	*/
DCATCH	\$ 4	/* DEERS variable	*/
/*DHSRGN	\$ 2*/	/* DEERS variable	*/
ACV	\$ 1	/* DEERS variable	*/
ENLSMPL	8	/* post-stratification variable	*/
FNSTATUS	8	/* post-stratification variable	*/
KEYCOUNT	8	/* post-stratification variable	*/
POSTSTR	\$ 3	/* post-stratification variable	*/
C05001	4	/* questionnaire	*/
C05002A	4	/* questionnaire	*/
C05002B	4	/* questionnaire	*/
C05002C	4	/* questionnaire	*/
C05002D	4	/* questionnaire	*/
C05002E	4	/* questionnaire	*/
C05002F	4	/* questionnaire	*/
C05002G	4	/* questionnaire	*/
C05002H	4	/* questionnaire	*/
C05002I	4	/* questionnaire	*/
C05003	4	/* questionnaire	*/
C05004	4	/* questionnaire	*/
C05005	4	/* questionnaire	*/
C05006	4	/* questionnaire	*/
C05007	4	/* questionnaire	*/
C05008	4	/* questionnaire	*/
C05009	4	/* questionnaire	*/
C05010	4	/* questionnaire	*/
C05011	4	/* questionnaire	*/
C05012	4	/* questionnaire	*/
C05013	4	/* questionnaire	*/
C05014	4	/* questionnaire	*/
C05015	4	/* questionnaire	*/
C05016	4	/* questionnaire	*/
C05017	4	/* questionnaire	*/
C05018	4	/* questionnaire	*/
C05019	4	/* questionnaire	*/
C05020	4	/* questionnaire	*/
C05021	4	/* questionnaire	*/
C05022	4	/* questionnaire	*/
C05023	4	/* questionnaire	*/
C05024	4	/* questionnaire	*/
C05025	4	/* questionnaire	*/
C05026	4	/* questionnaire	*/
C05027	4	/* questionnaire	*/
C05028	4	/* questionnaire	*/
C05029	4	/* questionnaire	*/
C05030	4	/* questionnaire	*/
C05031	4	/* questionnaire	*/
C05032	4	/* questionnaire	*/
C05033	4	/* questionnaire	*/
C05034	4	/* questionnaire	*/
C05035	4	/* questionnaire	*/
C05036	4	/* questionnaire	*/
C05037	4	/* questionnaire	*/
C05038	4	/* questionnaire	*/
C05039	4	/* questionnaire	*/
C05040	4	/* questionnaire	*/
C05041	4	/* questionnaire	*/
C05042	4	/* questionnaire	*/
C05043	4	/* questionnaire	*/
C05044	4	/* questionnaire	*/
C05045	4	/* questionnaire	*/
C05046	4	/* questionnaire	*/
C05047	4	/* questionnaire	*/
C05048	4	/* questionnaire	*/
C05049	4	/* questionnaire	*/
C05050	4	/* questionnaire	*/
C05051	4	/* questionnaire	*/
C05052	4	/* questionnaire	*/

C05053	4	/* questionnaire	*/
C05054	4	/* questionnaire	*/
C05055	4	/* questionnaire	*/
C05056	4	/* questionnaire	*/
C05057	4	/* questionnaire	*/
C05058	4	/* questionnaire	*/
C05059	4	/* questionnaire	*/
C05060	4	/* questionnaire	*/
C05061	4	/* questionnaire	*/
C05062	4	/* questionnaire	*/
C05063	4	/* questionnaire	*/
C05064	4	/* questionnaire	*/
C05065	4	/* questionnaire	*/
C05066	4	/* questionnaire	*/
C05067	4	/* questionnaire	*/
C05068	4	/* questionnaire	*/
C05069	4	/* questionnaire	*/
C05070	4	/* questionnaire	*/
C05071	4	/* questionnaire	*/
C05072	4	/* questionnaire	*/
C05073	4	/* questionnaire	*/
C05074	4	/* questionnaire	*/
C05075	4	/* questionnaire	*/
C05076	4	/* questionnaire	*/
C05077	4	/* questionnaire	*/
C05078	4	/* questionnaire	*/
C05079	4	/* questionnaire	*/
C05080	4	/* questionnaire	*/
C05081	4	/* questionnaire	*/
C05082	4	/* questionnaire	*/
C05083	4	/* questionnaire	*/
C05084	4	/* questionnaire	*/
C05085	4	/* questionnaire	*/
C05086	4	/* questionnaire	*/
C05087	4	/* questionnaire	*/
C05088	4	/* questionnaire	*/
C05089	4	/* questionnaire	*/
C05090A	4	/* questionnaire	*/
C05090B	4	/* questionnaire	*/
C05090C	4	/* questionnaire	*/
C05090D	4	/* questionnaire	*/
C05091	4	/* questionnaire	*/
C05092	4	/* questionnaire	*/
C05093F	4	/* questionnaire	*/
C05093I	4	/* questionnaire	*/
C05094	4	/* questionnaire	*/
C05095	4	/* questionnaire	*/
C05096	4	/* questionnaire	*/
C05097	4	/* questionnaire	*/
C05098	4	/* questionnaire	*/
C05099	4	/* questionnaire	*/
C05100	4	/* questionnaire	*/
C05101	4	/* questionnaire	*/
C05102	4	/* questionnaire	*/
C05103	4	/* questionnaire	*/
C05104	4	/* questionnaire	*/
C05105A	4	/* questionnaire	*/
C05105B	4	/* questionnaire	*/
C05105C	4	/* questionnaire	*/
C05105D	4	/* questionnaire	*/
C05105E	4	/* questionnaire	*/
C05105	4	/* questionnaire	*/
C05106A	4	/* questionnaire	*/
C05106B	4	/* questionnaire	*/
C05106C	4	/* questionnaire	*/
C05106D	4	/* questionnaire	*/
C05106E	4	/* questionnaire	*/
C05107	4	/* questionnaire	*/
C05108	4	/* questionnaire	*/
C05109	4	/* questionnaire	*/
C05110	4	/* questionnaire	*/
C05111	4	/* questionnaire	*/

```

ONTIME      $ 3      /* Survey fielding variable */
FLAG_FIN    $ 4      /* Survey fielding variable */
DUPFLAG     $ 3      /* Survey fielding variable */
WEB         8        /* Survey fielding variable */
MIQCNTL     $ 12     /* Survey fielding variable */
KATRINA      8        /* Survey fielding variable--q3 2005 only*/

N1          4        /* CS flag variable */
N2          4        /* CS flag variable */
N3          4        /* CS flag variable */
N4          4        /* CS flag variable */
N5          4        /* CS flag variable */
N6          4        /* CS flag variable */
N7          4        /* CS flag variable */
N8          4        /* CS flag variable */
N9          4        /* CS flag variable */
N10         4        /* CS flag variable */
N11         4        /* CS flag variable */
N12         4        /* CS flag variable */
N13         4        /* CS flag variable */
N14         4        /* CS flag variable */
N15         4        /* CS flag variable */
N16         4        /* CS flag variable */
N17         4        /* CS flag variable */
N18         4        /* CS flag variable */
N19         4        /* CS flag variable */
N20         4        /* CS flag variable */
N21         4        /* CS flag variable */
N22         4        /* CS flag variable */
N23         4        /* CS flag variable */
N24         4        /* CS flag variable */
N25         4        /* CS flag variable */
N26         4        /* CS flag variable */
N27         4        /* CS flag variable */
N28         4        /* CS flag variable */
N29         4        /* CS flag variable */
N30         4        /* CS flag variable */
N31         4        /* CS flag variable */
MISS_1      8        /* CS Count */
MISS_4      8        /* CS Count */
MISS_5      8        /* CS Count */
MISS_6      8        /* CS Count */
MISS_7      8        /* CS Count */
MISS_8      8        /* CS Count */
MISS_9      8        /* CS Count */
MISS_TOT    8        /* CS Count */

CONUS       3        /* constructed */
XENRLMT     8        /* constructed */
XENR_PCM    8        /* constructed */
XINS_COV    8        /* constructed */
XBNFGRP     8        /* constructed */
XBMIPCT     4        /* constructed */
XBMICAT     3        /* constructed */
XTNEXREG    3        /* constructed */
KMILOFFC    8        /* constructed */
KCIVOFFC    8        /* constructed */
KBGPRB1     8        /* constructed */
KBGPRB2     8        /* constructed */
KMILOP      8        /* constructed */
KCIVOP      8        /* constructed */
KCIVINS     8        /* constructed */
BWT         8        /* Weights */
;

SET MERGEC;

RUN;

PROC CONTENTS DATA=OUT.MERGEC POSITION;
RUN;

```


F.9.1 WEIGHTING\CHILD\ADJWT.SAS - CALCULATE ADJUSTED WEIGHTS.

```

*****
*** Project: DoD Child Sampling - Nonresponse adjustments
***
*** Program: F:\DOD\Q3_2005\Programs\Weighting\child\adjwt.sas,
***
*** TASK:      2004 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE:   CALCULATE THE FINAL WEIGHT.
***            WEIGHTS FOR DOD CHILD SURVEY.
***            DOD HEALTH CARE SURVEY FILE.
***            REQUESTED BY DON JANG.
*** WRITTEN:   11/09/1999 BY KEITH RATHBUN
*** Updated:  1)10/01/2003 by Esther Friedman
***            2)12/18/2003 By Haixia Xu
***            3)10/11/2004 by Haixia Xu for 2004 child weighting
***            4)10/26/2004 by Lucy Lu for child late response weighting
***            5)11/23/2004 by Haixia Xu for reweighting due to the fnstatus coding changes
***            6)11/16/2005 by Regina Gramss, replaced supreg with tnexsmpl.
***            7)12/15/2005 by Regina Gramss, changed selectc.sd2 to selectc2.sd2
***            the new file contains the field "fielded" which labels those
***            that were not fielded (fnstatus = 43, fielded = 0) (only
***            33,165 samples were sent out by mistake vs. 35000). This should be
***            changed back to selectc.sd2 next year (2006).
***
***
*** INPUTS:    selectc2.SD2  /*adjusted using unfielded.sas to
***                      identify those not fielded -- RSG 12/15/2005*/
***            FRAMEC.SD2
***
*** OUTPUT:    adjwt.SD2
***
*****
* ;
*** libname for the input and output data ***;
LIBNAME IN  v6 "..\..\..\DATA\Cfinal";
LIBNAME OUT v6  "..\..\..\DATA\Cfinal";
*LIBNAME LIBRARY  "..\..\..\DATA\Cfinal\fmtlib";

%include "..\design_effects_unequal_weights.sas";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER /*mprint mlogic symbolgen*/;

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Final Weights';
*****
* Calculate final weight based on user-specified domains.
*****;

%MACRO PROCESS(DOMAIN,FORM,INPT);

    *** Initial Information. ***;

    title5 'FRAMEC.SD2 Count';

    proc freq data=in.framec;
    table enlsmpl agesmpl tnexsmpl / list missing;
    run;

    title5 'selectc2.SD2 Counts Using BWT as the Weight';

    proc freq data=in.&inpt.;
    table enlsmpl agesmpl tnexsmpl fnstatus / list missing;
    weight BWT;
    format _all_;
    run;

    title5 'selectc2.SD2 Counts';

    proc freq data=in.&inpt.;
    table enlsmpl agesmpl tnexsmpl fnstatus
    web*enlsmpl web*agesmpl web*tnexsmpl web*fnstatus/ list missing;
    format _all_;

```

```

run;

*** Create the adjustment cells for nonresponse. ***;

data &inpt. (KEEP = MPRID FNSTATUS BWT enlsmpl tnexsmpl sexsmpl svcsmpl agesmpl stratum
poststr);;
set in.&inpt.;
format _all_;
run;

PROC SORT DATA=&inpt. OUT=&INPT.;
BY &DOMAIN.;
RUN;

*****
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
*****;
DATA CELLSA1 (KEEP=SUMBWT SUMG1-SUMG4 A1 CELLCNT cntg1-cntg4 &domain.)
MPRIDS1 (KEEP=MPRID FNSTATUS BWT &DOMAIN. enlsmpl tnexsmpl agesmpl)
;
SET &INPT.;
BY &DOMAIN;

IF FIRST.&DOMAIN. THEN DO;
CELLCNT = 0;
cntg1 = 0;
cntg2 = 0;
cntg3 = 0;
cntg4 = 0;
SUMBWT = 0.0;
SUMG1 = 0.0;
SUMG2 = 0.0;
SUMG3 = 0.0;
SUMG4 = 0.0;
A1 = 0.0;
END;
CELLCNT + 1;

*****
* Accumulate total weight sum
*****;

SUMBWT + BWT;

*****
* Accumulate group 1 weight sum
*****;

IF FNSTATUS IN (11,12) THEN
do;
SUMG1 + BWT;
cntg1 + 1;
end;

*****
* Accumulate group 2 weight sum
*****;

ELSE IF FNSTATUS in (20,31) THEN
do;
SUMG2 + BWT;
cntg2 + 1;
end;

*****
* Accumulate group 3 weight sum
*****;

ELSE IF FNSTATUS in (41,42,43) THEN
do;
SUMG3 + BWT;
cntg3 + 1;
end;

```

```

*****
* Accumulate group 4 weight sum
*****;

ELSE IF FNSTATUS = 32 THEN
  do;
    SUMG4 + BWT;
    cntg4 + 1;
  end;

RETAIN SUMBWT SUMG1-SUMG4 A1 CELLCNT cntg1-cntg4 MPRID;

IF LAST.&DOMAIN. THEN DO;
  A1 = (SUMG1 + SUMG2 + SUMG3)/(SUMG1 + SUMG2);
  OUTPUT CELLSA1;
END;

OUTPUT MPRIDSA1;

RUN;

title5 'Check for CELLSA1 Data Set';

proc print data=cellsal;
var stratum cntg1-cntg4 cellcnt sumg1-sumg4 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 cntg4 sumBWT sumg1 sumg2 sumg3 sumg4;
run;

proc print data=cellsal;
where ( a1 > 3.25 ) or ( cntg1 + cntg2 < 10 );
var stratum cntg1-cntg4 cellcnt sumg1-sumg4 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 cntg4 sumBWT sumg1 sumg2 sumg3 sumg4;
run;

proc univariate data=cellsal normal plot;
var a1;
run;

proc sort data=mpridsal;
by &domain.;
run;

proc sort data=cellsal;
by &domain.;
run;

data adj_one;
merge mpridsal cellsal;
by &domain.;
if fnstatus in (11,12,20,31) then adj1 = a1;
  else if fnstatus = 32 then adj1=1;
  else adj1 = 0;
adj_wt1 = adj1 * BWT;
run;

title5 'Checks for ADJ_ONE Data Set';

proc freq data=adj_one;
table stratum*fnstatus*adj1 / list missing;
run;

proc means data=adj_one n sum NOPRINT;
class fnstatus;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

```

```

proc means data=adj_one n sum NOPRINT;
class enlsmpl;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

*****
* Calculate adjustment factor A2 for each cell.
* This is the Nonresponse adjustment and creates the final weight (adjwt).
*****;

proc sort data=adj_one;
by &domain.;
run;

DATA CELLSA2 (KEEP= &domain. NUMER DENOM numercnt denomcnt A2);
  set adj_one ;
  BY &domain.;

  IF FIRST.&domain. THEN DO;
    A2 = 0.0;
    NUMER = 0.0;
    DENOM = 0.0;
    numercnt = 0;
    denomcnt = 0;
  END;

  RETAIN NUMER DENOM A2 numercnt denomcnt;

  IF FNSTATUS IN (11,12,20) THEN
    do;
      NUMER + adj_wt1;
      numercnt + 1;
    end;

  IF FNSTATUS = 11 THEN
    do;
      DENOM + adj_wt1;
      denomcnt + 1;
    end;

  IF LAST.&domain. THEN DO;
    A2 = NUMER/DENOM;
    OUTPUT CELLSA2;
  END;

RUN;

title5 'Check for CELLSA2 Data Set';

proc print data=cellsa2;
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc print data=cellsa2;
where ( a2 > 3.25 ) or ( denomcnt < 10 );
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc univariate data=cellsa2 normal plot;
var a2;
run;

proc sort data=adj_one;
by &domain.;
run;

```

```

proc sort data=cells2;
by &domain.;
run;

data adj_two;
merge adj_one cells2;
by &domain.;
if fnstatus = 11 then adj2 = a2;
  else if fnstatus in (31, 32) then adj2 = 1;
  else adj2 = 0;
adjwt = adj2 * adj_wt1;
label adjwt = 'Adjusted Weight';
KEEP MPRID fnstatus adj1 adj2 adjwt stratum enlsmpl;
run;

title5 'Check for ADJ_TWO Data Set';

proc freq data=adj_two;
table stratum*fnstatus*adj2 / list missing;
run;

proc means data=adj_two n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=adj_two n sum NOPRINT;
class enlsmpl;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

data adj_two;
set adj_two(drop=fnstatus enlsmpl);
run;

*****
* Sort the original data
*****;

PROC SORT DATA=&INPT. OUT=&INPT.;
BY MPRID;
RUN;

*****
* Sort the ADJ_TWO data set
*****;

PROC SORT DATA=adj_two;
BY MPRID;
RUN;

*****
* Append final weight variable (adjwt)
*****;
DATA OUT.adjwt;
  MERGE adj_two &INPT.;
  BY MPRID;
RUN;

title5 'Checks for adjwt Data Set';

```

```

proc means data=out.adjwt n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=out.adjwt n sum;
class stratum;
var BWT adjwt;
run;

proc sort data=out.adjwt out=chk;
by stratum fnstatus;
run;

data sub_chk;
set chk(keep = stratum fnstatus BWT adj1 adj2 adjwt);
by stratum fnstatus;
prodadjs = adj1 * adj2;
retain cellcnt sumadjwt;
if first.fnstatus then
  do;
    cellcnt = 1;
    sumadjwt = adjwt;
  end;
else
  do;
    cellcnt = cellcnt +1;
    sumadjwt = sumadjwt + adjwt;
  end;
if last.fnstatus then output sub_chk;
run;

proc print data=sub_chk;
var stratum fnstatus BWT adj1 adj2 prodadjs adjwt cellcnt sumadjwt;
sum cellcnt sumadjwt;
run;

proc univariate data=sub_chk normal plot;
where prodadjs ~= 0;
var prodadjs;
run;

proc univariate data=out.adjwt;
where fnstatus=11;
var adjwt;
run;

%MEND PROCESS;

*****
* Calculate final weight based on user-specified parameters.
*****;

%PROCESS(stratum,c,selectc2);

RUN;

```

F.9.2 WEIGHTING\CHILD\FRAMEC_POST.SAS - CREATE THE FRAME.

```
*****
***
*** Project: 2005 Health Care Survey of DoD Beneficiaries - Child
*** Project number: 6077
*** Task number: 220
***
*** Purpose: Create the frame for the child survey.
***
*** Date: April 23, 2003
*** Programmer: Nancy A. Clusen
***
*** Program: F:\Q3_2005\programs\weighting\child\framecpt.sas,
*** Creates the child sampling frame.
***
*** Inputs: F:\Q3_2005\Data\Cfinal\extractc.sd2
*** Extracted DoD data set used to creat the child sampling frame.
***
*** /*F:\Q3_2005\Data\Cfinal\xwalkc.sd2
*** Provides the family identifier */ - THIS IS NOT NEEDED FOR POST STRAT - RSG
12/21/2005
***
***
*** Outputs: F:\Q3_2005\Data\Cfinal\framecpt.sd2
*** Child weighting created from the ??? DoD data set.
***
*** Notes: None
*** Updated: 1)Haixia Xu on 04/15/2004 for 2004 child sampling
*** 2)Haixia Xu on 05/06/2005 for 2005 child sampling
*** -TNEXREG instead of regsmpl and supreg is used in the sampling
*** 3)Haixia Xu on 07/06/2005 to redraw 2005 child sample to include the children overseas
*** 4)Regina Gramss on 12/21/2005 for 2005 child sampling
*** -modified to create population counts for post stratification
*** These changes are probably not needed for 2006 and should be
*** deleted/changed back
*** 5)Regina Gramss on 01/20/2006 redefine enlsmpl to 4 levels splitting
*** out MTF and CIV PCMs. Add in freq check for OLD_PCM vs PCM.
***
*****;

*** Setup the titles ***;
title1 '2005 Health Care Survey of DoD Beneficiaries - Child';
title2 'Program: F:\Q3_2005\Programs\Weighting\framecpt.sas by Nancy A. Clusen';
title3 'Create the Child Sampling Frame';

*** Setup the options ***;
options ls=132 ps=79 nocenter compress=yes;

*** Setup the paths where the files are located ***;
libname in v6 '..\..\..\Data\Cfinal'; /* extractc.sd2, xwalkc.sd2 */
libname out v6 '..\..\..\Data\Cfinal';

title5 'Check the Contents of the Extracted DoD Data Set';
proc contents data=in.extractc;
run;

title5 'Check Some Important Variables';
proc freq data=in.extractc;
table dageqy patcat pcm pnsexcd svccd tnexreg/ list missing;
run;

title5 'Check the Contents for the Family Identifier';
proc contents data=in.xwalkc;
run;

*** Create the formats ***;
proc format;
value agesmpl 1 = 'Younger than 1'
               2 = '1 to 5'
               3 = '6 to 12'
               4 = '13 to 17'
               5 = 'Other'
```

```

        other = 'Error';
value bgcsmpl 1 = 'Active Duty'
              2 = 'Active Duty Family Member'
              3 = 'Retirees and Family Memeber'
              4 = 'Other'
        other = 'Error';
value enlsmpl 1 = 'Conus - MTF Enrolled'
              2 = 'Conus - CIV Enrolled'
              3 = 'Conus - Not Enrolled'
              9 = 'Oconus - Enrolled & Non enrolled'
              4 = 'Other'
        other = 'Error';
value tnexsmpl 1 = 'North TNEX region'
               2 = 'South TNEX region'
               3 = 'West TNEX region'
               4 = 'Overseas'
        other = 'Error';
value sexsmpl 1 = 'Male'
              2 = 'Female'
              3 = 'Other'
        other = 'Error';
value svcsmpl 1 = 'Army'
              2 = 'Navy'
              3 = 'Air Force'
              4 = 'Marine Corps'
              5 = 'Coast Guard'
              6 = 'Other'
        other = 'Error';

run;

*** Sort the data sets***;
proc sort data=in.extractc out=extractc;
by mprid prn;
run;

proc sort data=in.xwalkc out=xwalkc;
by mprid prn;
run;

***Merge the data sets to create the frame***;
data out.framecpt;
merge extractc (in = A) xwalkc (in = B);
by mprid prn;

*** Create the age group stratification variable: agesmpl ***;
if dageqy = ' ' then agesmpl = 1;
else if '000' <= dageqy < '001' then agesmpl = 1; /* RSG 12/21/2005 UNDER 1 YEARS OLD CAT ADDED FOR
THIS YEAR*/
else if '001' <= dageqy < '006' then agesmpl = 2;
else if '006' <= dageqy < '013' then agesmpl = 3;
else if '013' <= dageqy <= '017' then agesmpl = 4;
else agesmpl = 5;

*** Create a numeric age variable: age_n ***;
age_n = input(dageqy,3.0);
if age_n = . then age_n = 0;

*** Create the beneficiary group variable: bgcsmpl ***;
if patcat = 'DEPACT' then bgcsmpl = 2;
else if patcat = 'NADD<65' then bgcsmpl = 3;
else if patcat = 'ACTDTY' then bgcsmpl = 1;
else bgcsmpl = 4;

*** Create the enrollment status of beneficiary variable: enlsmpl ***;
*** Changed form 3 levels to 2 levels Dod q3 2002;
*** Define engsmpl=9 for all the children overseas, since we don't want to stratify the children
overseas by enrollment status;
if tnexreg in ('N', 'S', 'W') then do;

/*RSG 12/21/2005 - PCM RECODE NECESSARY SINCE DONE IN SAMPLING - SHOULD
NOT BE NECESSARY FOR 2006 IF PCM CODING IS CORRECTED BY STI */
LENGTH PCM_OLD $3.;

PCM_OLD=PCM;

```

```

IF ACV = 'Z' THEN PCM = ' ';

ELSE IF ACV = ' ' THEN PCM = ' ';

ELSE IF ('6900' < ENRID <= '6919' OR
        '7900' < ENRID <= '7919' OR
        '8000' < ENRID <= '8090' OR
        '0190' <= ENRID <= '0199')
    THEN PCM='CIV';

ELSE PCM='MTF';

if pcm = 'MTF' then enlsmpl = 1;
if pcm = 'CIV' then enlsmpl = 2;
if pcm = ' ' then enlsmpl = 3;

end;
else if tnexreg = 'O' then do;
    enlsmpl=9;
end;
else enlsmpl = 4;

*** Create the geographic area variable: tnexsmpl ***;
if tnexreg = 'N' then tnexsmpl = 1;
else if tnexreg = 'S' then tnexsmpl = 2;
else if tnexreg = 'W' then tnexsmpl = 3;
else if tnexreg = 'O' then tnexsmpl = 4;

*** Create the beneficiary gender variable: sexsmpl ***;
*** Missing, Z or ' ', is considered male ***;
if pnsexcd in ('M','Z') then sexsmpl = 1;
else if pnsexcd = ' ' then sexsmpl = 1;
else if pnsexcd = 'F' then sexsmpl = 2;
else sexsmpl = 3;

*** Create the branch of service variable: svcsmpl ***;
select (svccd);
when ('A') svcsmpl = 1;
when ('N') svcsmpl = 2;
when ('F') svcsmpl = 3;
when ('M') svcsmpl = 4;
when ('C') svcsmpl = 5;
otherwise svcsmpl = 6;
end;

*** Create the sampling stratum: stratum ***;
length stratum $3.;
stratum = put(tnexsmpl,1.) || put(enlsmpl,1.) || put(agesmpl,1.);

*** Create the family variable: family ***;
family = input(substr(ssnsmpl,1,9),9.0);

*** Label the variables ***;
LABEL SVCSMPL = 'SVCSMPL - Branch of Service'
      AGESMPL = 'AGESMPL - Age'
      SEXSMPL = 'SEXSMPL - Sex'
      STRATUM = 'prelim STRATUM: tnexsmpl+enlsmpl+agesmpl'
      BGCSMPL = 'BGCSMPL - Beneficiary Group'
      ENLSMPL = 'ENLSMPL - Enrollment Post Stratification Group'
      TNEXSMPL = 'TNEXSMPL - Beneficiary TNEX region'
      FAMILY = 'FAMILY - Family';
if A and B then output out.framecpt;
run;

title5 'CHECK OLD PCM VS NEW PCM DEF';
proc freq data=out.framecpt;
table PCM_OLD*PCM / list missing;
run;

title5 'Check the Constructed Variables';
proc freq data=OUT.framecpt;

```

```

table agesmpl agesmpl*dagegy
    age_n*dagegy
    bgcsmpl bgcsmpl*patcat
    enlsmpl enlsmpl*tnexreg*pcm
    tnexsmpl tnexsmpl*tnexreg
    sexsmpl sexsmpl*pnsexcd
    svcsmpl svcsmpl*svccd
    / list missing;
format agesmpl agesmpl.
    bgcsmpl bgcsmpl.
    enlsmpl enlsmpl.
    tnexsmpl tnexsmpl.
    sexsmpl sexsmpl.
    svcsmpl svcsmpl.;
run;

proc freq data=OUT.framecpt;
table stratum*tnexsmpl*enlsmpl*agesmpl / list missing;
run;

proc freq data=OUT.framecpt;
table stratum*tnexsmpl*enlsmpl*agesmpl / list missing;
where tnexsmpl = 4;
run;

*** Create the family code variable: famcode ***;
*** RSG 12/21/2005 - FOLLOWING CODES ARE NOT NEEDED FOR POST STRAT POP COUNTS ***;
/*
proc sort data=OUT.framecpt;
by family;
run;

data OUT.framecpt;
set OUT.framecpt;
by family;
retain famcode 0;
if first.family then famcode = famcode + 1;
label famcode = 'FAMCODE - Family Code';
run;

proc print data=OUT.framecpt (obs = 500);
var famcode family ssnsmpl;
run;
*/
*** Create the sampling strata variable: sampstr ***;
/*data OUT.framecpt;
set OUT.framecpt;
rannum = ranuni(45099321);
run;

proc sort data=OUT.framecpt;
by famcode rannum;
run;

data out.framecpt;
set OUT.framecpt;
by famcode;
retain sampstr '000';
if first.famcode = 1 then sampstr = stratum;
label sampstr = 'SAMPSTR-final sampling stratum';
;
run;

proc print data=OUT.framecpt (obs = 500);
var famcode sampstr;
run;

proc freq data=OUT.framecpt(obs=100);
table famcode*sampstr*stratum*rannum/ list missing;
run;

proc freq data=OUT.framecpt;
table sampstr*stratum/ list missing;
run;

```

```
title5 'Population Counts by Stratification Variables';
proc freq data=OUT.framecpt;
table stratum sampstr / list missing;
run;

title5 'Check the count for guard/reserve in the frame';
proc freq data=OUT.framecpt;
table pnlcatcd/ list missing;
run;
*/
***** The End *****;
```

F.9.3 WEIGHTING\CHILD\RECOUNTC2.SAS - CREATE THE COUNT DATA SET FOR THE CHILD SURVEY.

```
*****
*** Project:          2004 Health Care Survey of DoD Beneficiaries - Child
***
*** Purpose: Create the count data set for the child survey. This consists
***             of the population counts by various cell definitions:
***
***             PSUM0 = Stratification Variable Count
***             PSUM1 = tnexsmpl Count /*11/16/2005 RSG replace supreg with tnexsmpl*/
***             PSUM2 = ENLSMPL Count
***             PSUM3 = AGESMPL Count
***             TOTAL = Total Population
***
*** Input: FRAMECPT.sd2
*** Output: recntcpt.sd2
***
*** Updated: 10/11/2004 by Haixia Xu
***          11/16/2005 by Regina Gramss - replace supreg with tnexsmpl.
***          01/10/2006 by Regina Gramss - changes from framec_post produced
***          file FRAMECPT.SD2 (vs. FRAMEC.SD2). Also change name of output
***          file from RECOUNTC.SD2 to RECNTCPT.SD2. These should be changed back
***          for next year.
*****;

*** Setup the titles. ***;
title1 '2005 Health Care Survey of DoD Beneficiaries - Child';
title2 'Create population counts by various cell definitions.';

*** Setup the options. ***;
options ls=132 ps=79 nocenter compress=yes mlogic mprint symbolgen;

*** Setup the paths where the files are located. ***;
libname in v6 '..\..\..\Data\Cfinal';
libname out v6 '..\..\..\Data\Cfinal';

proc freq data=in.framecpt;
    tables stratum*tnexsmpl*enlsmpl*agesmpl/list;
run;

*** Set the stratification variable. ***;
%let strata = stratum;

* get sampling vars before collapsements;
data framec ;
    set in.framecpt;
run;

TITLE5 "FREQS of sample FRAMEC.SD2";
PROC FREQ DATA=framec;
    TABLES &strata. tnexsmpl ENLSMPL AGESMPL
    /MISSING LIST;
RUN;

PROC SORT DATA=framec OUT=FRAMEC;
    BY &strata. tnexsmpl ENLSMPL AGESMPL;
RUN;

PROC MEANS DATA=FRAMEC NOPRINT;
    BY &strata. tnexsmpl ENLSMPL AGESMPL;
    VAR ENLSMPL;
    OUTPUT
    OUT=T0(KEEP=&strata. tnexsmpl ENLSMPL AGESMPL)
    N=DUMMY;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
    TABLES &strata.
    /MISSING LIST OUT=T1(RENAME=(COUNT=PSUM0)
    KEEP=COUNT &strata.) NOPERCENT NOCUM NOPRINT;
RUN;
```

```

PROC FREQ DATA=FRAMEC NOPRINT;
  TABLES tnexsmp1
  /MISSING LIST OUT=T2(RENAME=(COUNT=PSUM1)
    KEEP=COUNT tnexsmp1) NOPERCENT NOCUM NOPRINT;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
  TABLES ENLSMPL
  /MISSING LIST OUT=T3(RENAME=(COUNT=PSUM2)
    KEEP=COUNT ENLSMPL) NOPERCENT NOCUM NOPRINT;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
  TABLES AGESMPL
  /MISSING LIST OUT=T4(RENAME=(COUNT=PSUM3)
    KEEP=COUNT AGESMPL) NOPERCENT NOCUM NOPRINT;
RUN;

PROC SORT DATA=T0; BY &strata.; RUN;
DATA T0;
  MERGE T0 T1;
  BY &strata.;
RUN;

PROC SORT DATA=T0; BY tnexsmp1; RUN;
DATA T0;
  MERGE T0 T2;
  BY tnexsmp1;
RUN;

PROC SORT DATA=T0; BY ENLSMPL; RUN;
DATA T0;
  MERGE T0 T3;
  BY ENLSMPL;
RUN;

PROC SORT DATA=T0; BY AGESMPL; RUN;

proc means data=framec noprint;
var prn;
output out=total n=total;
run;

DATA OUT.recntcpt;
if _n_=1 then set total(drop = _type_ _freq_);
  MERGE T0 T4;
  BY AGESMPL;
  LABEL PSUM0 = 'PSUM0 - &strata. Count'
    PSUM1 = 'PSUM1 - tnexsmp1 Count'
    PSUM2 = 'PSUM2 - ENLSMPL Count'
    PSUM3 = 'PSUM3 - AGESMPL Count'
    TOTAL = 'TOTAL Population'
  ;
RUN;

TITLE5 "Information for recntcpt.SD2";

PROC CONTENTS data=out.recntcpt;
RUN;

PROC PRINT data=out.recntcpt;
var &strata. tnexsmp1 enlsmp1 agesmp1 psum0-psum3 total;
sum psum0;
RUN;

```

F.9.4 WEIGHTING\CHILD\POSTSTR4_2.SAS - CHILD SAMPLING - POSTSTRATIFICATION ADJUSTMENTS.

```

*****
*** Project:          DoD Child Sampling - Poststratification adjustments
***
*** TASK:             2004 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE:          BUILD AND ASSIGN FINAL WEIGHTS - POST STRATIFICATION - Child Survey.
***                   WEIGHTS FOR CHILD DOD SURVEY.
***                   DOD HEALTH CARE SURVEY FILE.
***                   REQUESTED BY DON JANG.
*** WRITTEN:          12/30/99 BY KEITH RATHBUN
*** UPDATED:          10/01/03 BY Esther Friedman
***                   12/18/03 BY Haixia Xu
***                   10/11/2004 by Haixia Xu
***                   11/16/2005 by Regina Gramss, replaced supreg with tnexsmp1.
***                   01/10/2006 by Regina Gramss, redefine poststr field from
***                   sampling to match stratum in frame (from framec_post.sas)
***                   01/20/2006 by Regina Gramss, redefine PCM definition (same as
***                   definition in FRAMEC_POST.SAS) - this should be removed once
***                   STI definition of PCM is fixed.
***
*** INPUTS:           adjwt.SD2 - Adjusted Weights file - Form C
***                   recntc.sd2 - Name changed - from recountc2.sas program
***                   framecpt.sd2 - Name changed - from framec_post.sas program
***                   selectc2.sd2 - Name changed - from unfielded.sas program
*** OUTPUTS           POST_WT2.SD2 - Final Weights file - Form C (name changed from
***                   POST_WT.SD2)
*****;

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER mprint mlogic symbolgen;

*** libname for the input and output data ***;
LIBNAME IN v6 "..\..\..\Data\Cfinal"; /* adjwt.sd2, recntc.sd2, framec.sd2, selectc.sd2 */
LIBNAME OUT v6 "..\..\..\Data\Cfinal"; /* post_wt.sd2 */

%include "..\design_effects_unequal_weights.sas";

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Poststratified Weights';

/* 01/10/2006 - RSG:
   REDEFINE POSTSTR TO MATCH THE NEW DEFINITION OF STRATUM IN FRAME*/
** 01/10/2005 - RSG - NEED TO MERGE IN DAGEQY FROM SAMPLC01.SD2 TO REDEFINE
   AGESMPL TO MATCH THE AGESMPL IN THE FRAMECPST.SD2 FILE;

** 01/20/2006 - RSG: bring in newly defined enlsmp1 (with 4 levels) from
** framec_post.sas program to create new post stratum;

proc sort data=in.framecpt out=framec(keep=mprid dageqy enlsmp1 pcm);
by mprid;
proc sort data=in.adjwt out=p_adjwt;
by mprid;

data adjwt2(rename=(pstst=poststr));
merge p_adjwt (in=a) framec (in=b rename=(enlsmp1=enlsmp12));
by mprid;
if a;

length pstst $3. agesmpl2 3.;

if dageqy = ' ' then agesmpl2 = 1;
else if '000' <= dageqy < '001' then agesmpl2 = 1; /* RSG 12/21/2005 UNDER 1 YEARS OLD CAT ADDED
FOR THIS YEAR*/
else if '001' <= dageqy < '006' then agesmpl2 = 2;
else if '006' <= dageqy < '013' then agesmpl2 = 3;
else if '013' <= dageqy <= '017' then agesmpl2 = 4;
else agesmpl2 = 5;

pstst = put(tnexsmp1,1.) || put(enlsmp12,1.) || put(agesmpl2,1.);
drop poststr tnexreg ;
run;

proc sort data=adjwt2;

```

```

by poststr;
run;

%MACRO PROCESS(DOMAIN,FORM,INPT);

*****
* Sort the adjusted weights file by user-specified domains
*****;
/*PROC SORT DATA=IN.&inpt.*/ /* 01/10/2006 RSG use adjwt from step above with newly defined poststr
field*/
PROC SORT DATA=&inpt.2
      OUT=ADJWT(KEEP=FNSTATUS MPRID ADJWT &DOMAIN);
  BY &DOMAIN;
RUN;

*****
* Assign cell names and calculate the sum of ADJWT
*****;
DATA CELLS (KEEP=SUMADJWT SUMFN11 &DOMAIN)
  MPRIDS (KEEP=MPRID FNSTATUS ADJWT &DOMAIN)
  ;
  SET &inpt.2;
  BY &DOMAIN;

  IF FIRST.&DOMAIN THEN DO;
    SUMADJWT = 0.0;
    SUMFN11 = 0;
  END;

  *****
  * Accumulate sum of adjusted weight
  *****;
  SUMADJWT + ADJWT;

  *****
  * COUNT the FNSTATUS = 11 within each DOMAIN
  *****;
  IF FNSTATUS = 11 THEN SUMFN11 + 1;

  RETAIN SUMADJWT SUMFN11;

  IF LAST.&DOMAIN THEN DO;
    OUTPUT CELLS;
    SUMADJWT = 0.0;
    SUMFN11 = 0;
  END; * DOMAIN;
  OUTPUT MPRIDS;
RUN;

*****
* Merge the population counts and calculate the adjusted population (AP)
*****;
DATA recountc;
SET IN.recntcpt (KEEP = stratum PSUM0);
  POSTSTR = stratum;
  POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN; RUN;

DATA AP;
  MERGE recountc CELLS;
  BY &DOMAIN;
  AP = POP/SUMADJWT;
RUN;

*****
* Merge the adjusted population and calculate the final weight (WRWT)
*****;
DATA POST_WT;
  MERGE AP(IN=IN1) MPRIDS(IN=IN2);
  BY &DOMAIN;

  IF IN2 THEN DO;

```

```

        WRWT = AP*ADJWT;
        OUTPUT;
    END;

    LABEL WRWT      = 'Final Weight';
    LABEL AP        = 'Poststratification Adjustment Factor';
    LABEL POP       = 'DEERS population by CELLNAME for weights';
    LABEL SUMFN11   = 'COUNT of FNSTATUS=11 within CELLNAME';

    KEEP FNSTATUS WRWT ADJWT AP MPRID POP SUMFN11 &DOMAIN;
RUN;

PROC MEANS DATA=POST_WT NOPRINT;
    VAR POP WRWT AP SUMFN11;
    BY &DOMAIN;
    OUTPUT OUT=STATS(KEEP=POSTSTR DEERSPOP PSA_CNT AP_MEAN FN11CNT )
            SUM= DUMMY1   PSA_CNT DUMMY2 DUMMY3
            MEAN=DUMMY4   DUMMY5 AP_MEAN DUMMY6
            MAX= DEERSPOP DUMMY7 DUMMY8 FN11CNT;
RUN;

PROC PRINT;
    SUM DEERSPOP AP_MEAN PSA_CNT FN11CNT;
RUN;

proc sort data=cells;
by &domain.;
run;

proc sort data=post_wt;
by &domain.;
run;

data printchk;
merge cells post_wt;
by &domain;
run;

proc sort data=printchk;
by mprid;
run;

title4 "Print of key variables for 50 records";

Proc print data=Printchk (obs=50);
var &domain. AP ADJWT WRWT ;
where wrwt~=0;
run;
*****
* Sort the original data and append the final weight (WRWT)
*****;

/*PROC SORT DATA=IN.&INPT. OUT=ADJWT TAGSORT; BY MPRID; RUN;*/
/* 01/10/2006 RSG use adjwt from step above with newly defined poststr field*/

PROC SORT DATA=&INPT.2 OUT=ADJWT TAGSORT; BY MPRID; RUN;
PROC SORT DATA=POST_WT TAGSORT; BY MPRID; RUN;

DATA OUT.POST_WT2;
    MERGE ADJWT POST_WT;
    BY MPRID;
RUN;

*****
* Counts for population total for enrollment group, age, and superregion
*****;

TITLE4 "POPULATION COUNTS";

PROC FREQ data=in.framecpt;
    TABLE ENLSMPL AGESMPL tnexsmpl;
RUN;

*****

```

```

* Weighted frequencies for enrollment group, age, and superregion
* using poststratification adjusted weight
*****;

TITLE4 "WEIGHTED FREQUENCIES";

PROC FREQ data=in.post_wt2;
    WEIGHT WRWT;
    TABLE ENLSMPL2 AGESMPL2 tnexsmpl;
RUN;

title4 "CHECK Individual Level WRWT";
proc univariate data=in.post_wt2 normal;
where fnstatus=11;
var wrwt;
run;

title4 "CHECK Individual Level AP";
proc univariate data=in.post_wt2 normal;
where fnstatus=11;
var ap;
run;

*****
***Added on 10/15/2004 by Haixia Xu for 2004 child weighting***
Merge post_wt with selectc to get the variable MPCSMPL
Merge post_wt with framec to get the variable TNEXREG
*****;
data selectc;
set in.selectc2(keep=MPRID MPCSMPL);
run;

data framec;
set in.framecpt(keep=MPRID TNEXREG);
run;

proc sort data=in.post_wt2 out=post_wt;
by MPRID;
run;

proc sort data=selectc;
by MPRID;
run;

proc sort data=framec;
by MPRID;
run;

data merged;
merge post_wt(in=A) selectc(in=B) framec(in=C);
by MPRID;
if MPCSMPL=1 then MPCSMPLc=1;
else MPCSMPLc=2;
label MPCSMPLc="Collapsed MPCSMPL:1-Enlisted/Unknown, 2-Officer/Warrant";
if A and B and C;
run;

proc contents data=merged;
run;

title4 "Freq of MPCSMPLc*MPCSMPL";
proc freq data=merged;
table MPCSMPLc*MPCSMPL/missing list;
run;

data OUT.post_wt2;
set merged;
run;

*****;
*** Calculate the Design Effects ***;
*****;
data post_wt_fnl11;

```

```

set in.post_wt2;
where fnstatus=11;
run;

%design_effects_unequal_weights ( post_wt_fnl11, tnexsmp1, WRWT, deff_overall, deff_sup );
%design_effects_unequal_weights ( post_wt_fnl11, agesmp1, WRWT, deff_overall, deff_age );
%design_effects_unequal_weights ( post_wt_fnl11, enlsmp12, WRWT, deff_overall, deff_enl );
%design_effects_unequal_weights ( post_wt_fnl11, svcsmp1, WRWT, deff_overall, deff_svc );
%design_effects_unequal_weights ( post_wt_fnl11, sexsmp1, WRWT, deff_overall, deff_sex );
***Below was Added on 10/15/2004 by Haixia Xu for 2004 child weighting;
%design_effects_unequal_weights ( post_wt_fnl11, MPCSMPLc, WRWT, deff_overall, deff_mpc );
%design_effects_unequal_weights ( post_wt_fnl11, TNEXREG, WRWT, deff_overall, deff_tnex );

title4 "design effect overall";
proc print data = deff_overall;
run;

title4 "design effect by tnexsmp1";
proc print data= deff_sup;
sum _freq_;
run;

title4 "design effect by agesmp1";
proc print data= deff_age;
sum _freq_;
run;

title4 "design effect by enlsmp12";
proc print data= deff_enl;
sum _freq_;
run;

title4 "design effect by svcsmp1";
proc print data= deff_svc;
sum _freq_;
run;

title4 "design effect by sexsmp1";
proc print data= deff_sex;
sum _freq_;
run;

title4 "design effect by MPCSMPLc";
proc print data= deff_mpc;
sum _freq_;
run;

title4 "design effect by TNEXREG";
proc print data= deff_tnex;
sum _freq_;
run;

*****
***Added on 10/15/2004 by Haixia Xu for 2004 child weighting
Calculate the weighted total and the population total by TNEXREG
*****
title4 "weighted total by TNEXREG,TNEXREG*agesmp1,TNEXREG*sexsmp1 using final weight WRWT";
proc freq data=in.post_wt2;
tables TNEXREG TNEXREG*agesmp1 TNEXREG*sexsmp1 /missing list;
weight WRWT;
run;

title4 "Population total by TNEXREG,TNEXREG*agesmp1,TNEXREG*sexsmp1";
proc freq data=in.framecpt;
tables TNEXREG TNEXREG*agesmp1 TNEXREG*sexsmp1 /missing list;
run;

%MEND PROCESS;

%PROCESS(poststr,C,adjwt);

```

F.9.5 WEIGHTING\CHILD\REPWT.SAS - CALCULATE REPLICATED WEIGHTS.

```
*****
*** Project:      DoD Child Sampling - Poststratification adjustments
**
*** TASK:        2004 DOD HEALTH CARE SURVEY ANALYSIS (8676-610)
*** PURPOSE:     BUILD AND ASSIGN JK WEIGHTS - POST STRATIFICATION - CHILD SURVEY
***             WEIGHTS FOR DOD SURVEY.
***             DOD HEALTH CARE SURVEY FILE.
***             REQUESTED BY DON JANG.
*** WRITTEN:     12/30/99 BY KEITH RATHBUN
*** REVISED:    10/01/2003 BY Esther Friedman
*** UPDATED:    1)12/18/2003 BY Haixia Xu
***             2)10/11/2004 by Haixia Xu
***             3)11/22/2004 by Haixia Xu for reweighting due to the fnstatus changes
***             4)01/19/2006 by Regina Gramss - update for 2006, input data
***             name changed from POST_WT.SD2 to POST_WT2.SD2 from POSTSTR4_2.SAS
***
*** INPUTS:      1) POST_WT2.SD2 - Final Weights file - Form C
*** OUTPUTS     1) REPWT.SD2 - JackKnife (JK) Weights file - Form C
*****
* ;

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER /*mprint mlogic symbolgen*/ ;

*** libname for the count***;
LIBNAME IN      v6 "..\..\Data\Cfinal";
LIBNAME OUT     v6 "..\..\Data\Cfinal";

%MACRO PROCESS(DOMAIN1, DOMAIN2, FORM);

*****
* Sort the final weights file by user-specified domains
*****;
PROC SORT DATA=IN.post_wt2
      OUT=post_wt(KEEP=FNSTATUS MPRID BWT &DOMAIN1 &DOMAIN2)
      ;
      BY &DOMAIN1;
RUN;

*****
* Append SUBSET index (I) to each observation
*****;
DATA SUBSETS;
      SET post_wt;
      BY &DOMAIN1;

      IF _N_ = 1 OR MOD(_N_-1,60) = 0 THEN SUBSET = 1;
      ELSE SUBSET + 1;

      RETAIN SUBSET;
      BBWT = BWT*(60/59);
RUN;

*****
*****
* Generate JackKnife/replicated weights WRWT01-WRWT60
*****
*****;
%DO I = 1 %TO 60;

DATA SUBSET;
      SET SUBSETS;
      IF &I = SUBSET THEN DELETE; *Remove the current subset;
RUN;

*****
* Calculate adjustment factor A1 for each cell
*****;
DATA CELLSA1 (KEEP=SUMBBWT SUMG1-SUMG4 A1 CELLNAME CELLCNT)
      MPRIDSA1 (KEEP=CELLNAME MPRID FNSTATUS BBWT &DOMAIN1 &DOMAIN2)
      ;
      SET SUBSET;
```

```

BY &DOMAIN1;

LENGTH CELLNAME $25;
CELLNAME = PUT(&DOMAIN1,5.);

IF FIRST.&DOMAIN1 THEN DO;
    CELLCNT = 0;
    SUMBBWT = 0.0;
    SUMG1 = 0.0;
    SUMG2 = 0.0;
    SUMG3 = 0.0;
    SUMG4 = 0.0;
    A1 = 0.0;
END;
CELLCNT + 1;

*****
* Accumulate total weight sum
*****;
SUMBBWT + BBWT;
*****
* Accumulate group 1 weight sum
*****;
IF FNSTATUS IN(11,12) THEN SUMG1 + BBWT;
*****
* Accumulate group 2 weight sum
*****;
ELSE IF FNSTATUS = 20 THEN SUMG2 + BBWT;
*****
* Accumulate group 3 weight sum
*****;
ELSE IF FNSTATUS = 31 THEN SUMG3 + BBWT;
*****
* Accumulate group 4 weight sum
*****;
ELSE IF FNSTATUS = 32 THEN SUMG4 + BBWT;

RETAIN SUMBBWT SUMG1-SUMG4 A1 CELLNAME CELLCNT MPRID;

IF LAST.&DOMAIN1 THEN DO;
    A1 = (SUMBBWT-SUMG4)/(SUMG1 + SUMG2 + SUMG3);
    OUTPUT CELLSA1;
    CELLCNT = 0;
    SUMBBWT = 0.0;
    SUMG1 = 0.0;
    SUMG2 = 0.0;
    SUMG3 = 0.0;
    SUMG4 = 0.0;
END; * DOMAIN;
OUTPUT MPRIDSA1;
RUN;

*****
* Calculate adjustment factor A2 for each cell
*****;
DATA CELLSA2 (KEEP=CELLNAME CELLCNT A1 A2 NUMBER DENOM);
MERGE MPRIDSA1 CELLSA1;
BY CELLNAME;

IF FIRST.CELLNAME THEN DO;
    A2 = 0.0;
    NUMBER = 0.0;
    DENOM = 0.0;
END;
RETAIN NUMBER DENOM A2;

IF FNSTATUS IN(11,12,20) THEN NUMBER + BBWT*A1;
IF FNSTATUS = 11 THEN DENOM + BBWT*A1;

IF LAST.CELLNAME THEN DO;
    A2 = NUMBER/DENOM;
    OUTPUT CELLSA2;
END;
RUN;

```

```

*****
* Calculate Adjusted Weight
*****;
DATA ADJWGT;
  MERGE CELLSA2 MPRIDSA1;
  BY CELLNAME;
  IF FNSTATUS = 11 THEN
    AWT = A1*A2*BBWT;
  ELSE IF FNSTATUS IN(12,20,41,42) THEN
    AWT = 0;
  ELSE IF FNSTATUS =31 THEN
    AWT = A1*BBWT;
  ELSE IF FNSTATUS =32 THEN
    AWT = BBWT;
  KEEP MPRID FNSTATUS AWT BBWT &DOMAIN1 &DOMAIN2;
RUN;

*****
* Begin final weight code
*****
* Assign cell names and calculate the sum of AWT
*****;

PROC SORT DATA=ADJWGT; BY &DOMAIN2; RUN;

DATA CELLS (KEEP=SUMAWT &DOMAIN2)
  MPRIDS (KEEP=MPRID FNSTATUS AWT &DOMAIN1 &DOMAIN2)
  ;
  SET ADJWGT;
  BY &DOMAIN2;

  IF FIRST.&DOMAIN2 THEN DO;
    SUMAWT = 0.0;
  END;

  *****
  * Accumulate sum of adjusted weight
  *****;
  SUMAWT + AWT;

  RETAIN SUMAWT;

  IF LAST.&DOMAIN2 THEN DO;
    OUTPUT CELLS;
    SUMAWT = 0.0;
  END; * DOMAIN;
  OUTPUT MPRIDS;
RUN;

*****
* Merge the population counts and calculate the adjusted population (AP)
*****;
DATA recountc;
SET in.recntcpt (KEEP = stratum PSUM0);
  POSTSTR = stratum;
  POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN2; RUN;

DATA AP;
  MERGE recountc CELLS ;
  BY &DOMAIN2;
  AP = POP/SUMAWT;
RUN;

*****
* Merge the adjusted population and calculate JackKnife Weights
* (WRWT1-WRWT60)
*****;
DATA SUBSET&I(KEEP=MPRID SUBSET JKWEIGHT);
  MERGE AP(IN=IN1) MPRIDS(IN=IN2);
  BY &DOMAIN2;

```

```

SUBSET = &I;
IF IN2 THEN DO;
    JKWEIGHT = AP*AWT;
    OUTPUT;
END;

RUN;

PROC SORT DATA=SUBSET&I; BY MPRID; RUN;

*****
*****
* End of JackKnife/replicated weights WRWT01-WRWT60 assignments
*****
*****;
%END;

*****
* Combine all of the JackKnife weight subsets by MPRID
*****;
DATA ALLSETS;
    SET SUBSET1    SUBSET2    SUBSET3    SUBSET4    SUBSET5
        SUBSET6    SUBSET7    SUBSET8    SUBSET9    SUBSET10
        SUBSET11    SUBSET12    SUBSET13    SUBSET14    SUBSET15
        SUBSET16    SUBSET17    SUBSET18    SUBSET19    SUBSET20
        SUBSET21    SUBSET22    SUBSET23    SUBSET24    SUBSET25
        SUBSET26    SUBSET27    SUBSET28    SUBSET29    SUBSET30
        SUBSET31    SUBSET32    SUBSET33    SUBSET34    SUBSET35
        SUBSET36    SUBSET37    SUBSET38    SUBSET39    SUBSET40
        SUBSET41    SUBSET42    SUBSET43    SUBSET44    SUBSET45
        SUBSET46    SUBSET47    SUBSET48    SUBSET49    SUBSET50
        SUBSET51    SUBSET52    SUBSET53    SUBSET54    SUBSET55
        SUBSET56    SUBSET57    SUBSET58    SUBSET59    SUBSET60
    ;
    BY MPRID;
    ARRAY JKWT(60) WRWT1-WRWT60; RETAIN WRWT1-WRWT60;
    IF FIRST.MPRID THEN DO;
        DO I = 1 TO 60; DROP I;
            JKWT(I) = . ;
        END;
    END;
    JKWT(SUBSET) = JKWEIGHT;
    IF LAST.MPRID THEN OUTPUT;
    KEEP MPRID WRWT1-WRWT60 SUBSET;
RUN;

*****
* Sort the original data, get the final weight (WRWT), append the
* JackKnife/Replicated weights (WRWT1-WRWT60), and label variables.
*****;
PROC SORT DATA=IN.POST_WT2
    OUT=POST_WT;
    BY MPRID;
RUN;

DATA OUT.REPWT;
    MERGE POST_WT ALLSETS;
    BY MPRID;
    LABEL
        MPRID    = 'MPR ID Number'
        WRWT1    = 'Replicated/JackKnife Weight 1'
        WRWT2    = 'Replicated/JackKnife Weight 2'
        WRWT3    = 'Replicated/JackKnife Weight 3'
        WRWT4    = 'Replicated/JackKnife Weight 4'
        WRWT5    = 'Replicated/JackKnife Weight 5'
        WRWT6    = 'Replicated/JackKnife Weight 6'
        WRWT7    = 'Replicated/JackKnife Weight 7'
        WRWT8    = 'Replicated/JackKnife Weight 8'
        WRWT9    = 'Replicated/JackKnife Weight 9'
        WRWT10   = 'Replicated/JackKnife Weight 10'
        WRWT11   = 'Replicated/JackKnife Weight 11'
        WRWT12   = 'Replicated/JackKnife Weight 12'
        WRWT13   = 'Replicated/JackKnife Weight 13'

```

```

WRWT14 = 'Replicated/JackKnife Weight 14'
WRWT15 = 'Replicated/JackKnife Weight 15'
WRWT16 = 'Replicated/JackKnife Weight 16'
WRWT17 = 'Replicated/JackKnife Weight 17'
WRWT18 = 'Replicated/JackKnife Weight 18'
WRWT19 = 'Replicated/JackKnife Weight 19'
WRWT20 = 'Replicated/JackKnife Weight 20'
WRWT21 = 'Replicated/JackKnife Weight 21'
WRWT22 = 'Replicated/JackKnife Weight 22'
WRWT23 = 'Replicated/JackKnife Weight 23'
WRWT24 = 'Replicated/JackKnife Weight 24'
WRWT25 = 'Replicated/JackKnife Weight 25'
WRWT26 = 'Replicated/JackKnife Weight 26'
WRWT27 = 'Replicated/JackKnife Weight 27'
WRWT28 = 'Replicated/JackKnife Weight 28'
WRWT29 = 'Replicated/JackKnife Weight 29'
WRWT30 = 'Replicated/JackKnife Weight 30'
WRWT31 = 'Replicated/JackKnife Weight 31'
WRWT32 = 'Replicated/JackKnife Weight 32'
WRWT33 = 'Replicated/JackKnife Weight 33'
WRWT34 = 'Replicated/JackKnife Weight 34'
WRWT35 = 'Replicated/JackKnife Weight 35'
WRWT36 = 'Replicated/JackKnife Weight 36'
WRWT37 = 'Replicated/JackKnife Weight 37'
WRWT38 = 'Replicated/JackKnife Weight 38'
WRWT39 = 'Replicated/JackKnife Weight 39'
WRWT40 = 'Replicated/JackKnife Weight 40'
WRWT41 = 'Replicated/JackKnife Weight 41'
WRWT42 = 'Replicated/JackKnife Weight 42'
WRWT43 = 'Replicated/JackKnife Weight 43'
WRWT44 = 'Replicated/JackKnife Weight 44'
WRWT45 = 'Replicated/JackKnife Weight 45'
WRWT46 = 'Replicated/JackKnife Weight 46'
WRWT47 = 'Replicated/JackKnife Weight 47'
WRWT48 = 'Replicated/JackKnife Weight 48'
WRWT49 = 'Replicated/JackKnife Weight 49'
WRWT50 = 'Replicated/JackKnife Weight 50'
WRWT51 = 'Replicated/JackKnife Weight 51'
WRWT52 = 'Replicated/JackKnife Weight 52'
WRWT53 = 'Replicated/JackKnife Weight 53'
WRWT54 = 'Replicated/JackKnife Weight 54'
WRWT55 = 'Replicated/JackKnife Weight 55'
WRWT56 = 'Replicated/JackKnife Weight 56'
WRWT57 = 'Replicated/JackKnife Weight 57'
WRWT58 = 'Replicated/JackKnife Weight 58'
WRWT59 = 'Replicated/JackKnife Weight 59'
WRWT60 = 'Replicated/JackKnife Weight 60'
;
RUN;

TITLE1 "2005 DOD Health Survey Final/Replicated Weights";
TITLE2 "Program Output: REPWT.SD2";

*****
/** Added on 10/15/2004 **/
Check the structure of the data set OUT.repwt;
*****;
proc sort data=OUT.repwt out=sorted1;
by stratum MPRID;
run;

proc print data=sorted1 (obs=500);
var stratum MPRID SUBSET fnstatus wrwt wrwt1-wrwt5;
run;

** End of the modification;

PROC CONTENTS DATA=OUT.REPWT;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR WRWT WRWT1-WRWT60;
RUN;

```

```

PROC SORT DATA=OUT.REPWT;
BY MPRID;
RUN;

DATA OUT.REPWT;
SET OUT.REPWT;
BY MPRID;

ARRAY WGTS(60) WRWT1-WRWT60;
DO I = 1 TO 60; DROP I;
IF WGTS(I) EQ . THEN WGTS(I) = 0;
END;

KEEP MPRID BWT adjwt POP POSTSTR FNSTATUS WRWT WRWT1-WRWT60;
RUN;

PROC CONTENTS DATA=OUT.REPWT;

PROC SORT DATA=OUT.REPWT; BY &DOMAIN2; RUN;
PROC MEANS DATA=OUT.REPWT NOPRINT;
VAR POP WRWT;
BY &DOMAIN2;
OUTPUT OUT=STATS(KEEP=&DOMAIN2 DEERSPOP POPCNT)
SUM= DUMMY1 POPCNT
MAX= DEERSPOP DUMMY2;
RUN;
Proc print data=stats;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR WRWT WRWT1-WRWT60;
RUN;

*****
/** Added on 10/15/2004 **/
Check the structure of the data set OUT.repwt;
*****;
data repwt2;
set out.repwt;
where fnstatus = 11;
array subset2(60) wrwt1-wrwt60;
do m=1 to 60;
if subset2(m)=0 then
subset=m;
end;
run;

proc sort data = repwt2;
by subset;
run;

proc means data = repwt2 noprint;
by subset;
var adjwt wrwt1-wrwt60;
output out = check2 sum= / autoname;
run;

proc print data = check2;
run;
** End of the modification;

***Added on 10/15/2004 for 2004 child weighting.
Drop the variable fnstatus which was not kept in the previous years;
data OUT.repwt;
set OUT.repwt;
drop fnstatus;
run;

%MEND;

%PROCESS(stratum, POSTSTR, C);

```

F.10.1WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.SAS - CALCULATE RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.SAS
* TASK:    2005 DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE: BUILD TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
*          Quarterly DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 11/09/1999 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
*    unweighted (SN) population sizes. Also, Update for quarterly survey
*    to use BWT instead of BWT99 (generalized variable name for ease of
*    maintenance).
* 2) 02/01/2001, Keith Rathbun - Added the PERIOD parameter.
* 3) 01/30/2003, Esther Friedman - added nested macro so it would run for all 4 quarters trickle
files
* INCLUDES: 1) TABLE02.IN1
*            2) TABLE02.IN2
* UPDATED: 1)12/22/2003 By Haixia Xu
*           2)10/19/2004 by Haixia Xu for 2004 data
*           3)10/26/2004 by Haixia Xu after the late response
*           4)11/23/2004 BY Haixia Xu for the reweighting due to the fnstatus coding changes
*           5)01/27/2006 by Haixia Xu for 2005 child RR -- Change supreg to tnexsmpl, and fix
enlsmpl
*****;
*LIBRARIES;

LIBNAME IN3    v8    "F:\Q3_2005\Data\Cfinal"; /* newmerge.sd7 */
LIBNAME DODIN3 v6    "F:\Q3_2005\Data\Cfinal"; /* selectc.sd2 */

OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOCENTER NOFMterr;

*LIBNAME LIBRARY &LIB;

%let period= dod\q3_2004_c;

%macro doit;
  %do qtr=3 %to 3;

*****
* Merge repwt and selectc files to add ebg_com
*****;

data IN&qtr..newmerge;
  set DODIN&qtr..selectc;
  format _all_;

/*this part below is added for 2005 to correct PCM.
We should remove it in 2006, since PCM is correct in STI file*/

if tnexreg in ('N', 'S', 'W') then do;
  LENGTH PCM_OLD $3.;

  PCM_OLD=PCM;

  IF ACV = 'Z' THEN PCM = ' ';

  ELSE IF ACV = ' ' THEN PCM = ' ';

  ELSE IF ('6900' < ENRID <= '6919' OR
    '7900' < ENRID <= '7919' OR
    '8000' < ENRID < '8090' OR
    '0190' <= ENRID <= '0199')
    THEN PCM='CIV';

  ELSE PCM='MTF';

  if pcm in ('MTF', 'CIV') then enlsmpl = 1;
  if pcm = ' ' then enlsmpl = 2;
end;

```

```

else if tnexreg = '0' then do; enlsmpl=9; end;
else enlsmpl = 4;

if tnexsmpl in (1,2,3) then conus=1;
else conus=0;

run;

proc freq;
tables tnexreg*pcm_old*pcm tnexreg*pcm*enlsmpl tnexsmpl*conus/missing list;
run;

data IN&qtr..newmerge;
set IN&qtr..newmerge(drop=pcm_old);
run;

%MACRO PROCESS(INPT,FORM,LIB);

*****
* Process OVERALL Summary of response rates
*****
;

DATA _NULL_;
  SET IN&qtr..&INPT END=FINISHED;
  format _all_;
  IF _N_ = 1 THEN DO;
    SN      = 0;
    SN1     = 0;
    SN11    = 0;
    SN12    = 0;
    SN2     = 0;
    SN31    = 0;
    SN4     = 0;
    SN41    = 0;
    SN42    = 0;
    WN      = 0;
    WN1     = 0;
    WN11    = 0;
    WN12    = 0;
    WN2     = 0;
    WN31    = 0;
    WN4     = 0;
    WN41    = 0;
    WN42    = 0;
  END;
  *****
  * Accumulate group 1 weighted and unweighted counts
  *****
  ;
  SN + 1;
  WN + BWT;
  IF FNSTATUS IN(11,12) THEN DO;
    SN1 + 1;
    WN1 + BWT;
    IF FNSTATUS = 11 THEN DO;
      SN11 + 1;
      WN11 + BWT;
    END;
  ELSE DO;
    SN12 + 1;
    WN12 + BWT;
  END;
END;
*****
* Accumulate group 2 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 20 THEN DO;
  SN2 + 1;
  WN2 + BWT;

```

```

END;
*****
* Accumulate group 3 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 31 THEN DO;
    SN31 + 1;
    WN31 + BWT;
END;
*****
* Accumulate group 4 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS IN(41,42) THEN DO;
    SN4 + 1;
    WN4 + BWT;
    IF FNSTATUS = 42 THEN DO;
        SN42 + 1;
        WN42 + BWT;
    END;
    ELSE DO;
        SN41 + 1;
        WN41 + BWT;
    END;
END;
END;

DROP I;
RETAIN
    SN
    SN1
    SN11
    SN12
    SN2
    SN31
    SN4
    SN41
    SN42
    WN
    WN1
    WN11
    WN12
    WN2
    WN31
    WN4
    WN41
    WN42
;

    IF FINISHED THEN GO TO FINISHED;

    RETURN;

FINISHED:
    FILE "F:\Q&qtr._2005\Data\Cfinal\Response_Rate\TABLE02&FORM..OUT" LRECL=132;
    PUT; PUT;
    PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
    PUT @001 "10-19-2004, TASK: 6077-300";
    PUT;
    PUT "SUMMARY OF GROUP COUNTS: FORM &FORM";
    PUT;
    PUT @050 "UNWEIGHTED COUNT"
        @100 "WEIGHTED COUNT"
    ;
    PUT @040 'FLR'
        @050 'FCR'
        @060 'FRR'
        @070 'POP'
        @090 'FLR'
        @100 'FCR'
        @110 'FRR'
        @120 'POP'
    ;
    %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
RUN;

```

```

%MEND PROCESS;

*****
* Process Single Domain where domain1 is the variable of interest
*****;

%MACRO PROCESS1(DOMAIN1,INPT,FORM,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1; RUN;

DATA _NULL_;
    SET &INPT;
    format _all_;
    BY &DOMAIN1;
    FILE "F:\Q&qtr._2005\Data\Cfinal\Response_Rate\&DOMAIN1..OUT" LRECL=132;
    LENGTH VARNAME1 $8;
    LENGTH VARIABLE $30;
    CALL VNAME(&DOMAIN1,VARNAME1);
    VARIABLE = VARNAME1;
    %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
    IF LAST.&DOMAIN1 THEN DO;
        PUT @001 &DOMAIN1 @;
        %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
    END; * DOMAIN;
RUN;
%MEND PROCESS1;

*****
* Process Double Domain where domain1/domain2 are the variables of interest
*****
;

%MACRO PROCESS2(DOMAIN1,DOMAIN2,INPT,FORM,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2; RUN;

DATA _NULL_;
    format _all_;
    SET &INPT;
    BY &DOMAIN1 &DOMAIN2;
    FILE "F:\Q&qtr._2005\Data\Cfinal\Response_Rate\&DOMAIN1&DOMAIN2..OUT" LRECL=132;
    LENGTH VARNAME1 $8;
    LENGTH VARNAME2 $8;
    LENGTH VARIABLE $30;
    CALL VNAME(&DOMAIN1,VARNAME1);
    CALL VNAME(&DOMAIN2,VARNAME2);
    VARIABLE = VARNAME1 || " " || VARNAME2;
    %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
    IF LAST.&DOMAIN2 THEN DO;
        PUT @001 &DOMAIN1 @;
        PUT @025 &DOMAIN2 @;
        %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
        SN      = 0;
        SN1     = 0;
        SN11    = 0;
        SN12    = 0;
        SN2     = 0;
        SN31    = 0;
        SN4     = 0;
        SN41    = 0;
        SN42    = 0;
        WN      = 0;
        WN1     = 0;
        WN11    = 0;
        WN12    = 0;
        WN2     = 0;
        WN31    = 0;
        WN4     = 0;
        WN41    = 0;
        WN42    = 0;
    END;

```

```

        END; * DOMAIN;
RUN;
%MEND PROCESS2;

*****
* Process Triple Domain where domain1-3 are the variables of interest
*****
;
%MACRO PROCESS3(DOMAIN1,DOMAIN2,DOMAIN3,INPT,FORM,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2 &DOMAIN3; RUN;

DATA _NULL_;
    format _all_;
    SET &INPT;
    BY &DOMAIN1 &DOMAIN2 &DOMAIN3;
    FILE "F:\Q&qtr._2005\Data\Cfinal\Response_Rate\&DOMAIN1&DOMAIN2&DOMAIN3..OUT" LRECL=132;
    LENGTH VARNAME1 $8;
    LENGTH VARNAME2 $8;
    LENGTH VARNAME3 $8;
    LENGTH VARIABLE $30;
    CALL VNAME(&DOMAIN1,VARNAME1);
    CALL VNAME(&DOMAIN2,VARNAME2);
    CALL VNAME(&DOMAIN3,VARNAME3);
    VARIABLE = VARNAME1 || " " || VARNAME2 || " " || VARNAME3;
    %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
    IF LAST.&DOMAIN3 THEN DO;
        PUT @001 &DOMAIN1 @;
        PUT @015 &DOMAIN2 @;
        PUT @035 &DOMAIN3 @;
        %INCLUDE "F:\Q&qtr._2005\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
        SN      = 0;
        SN1     = 0;
        SN11    = 0;
        SN12    = 0;
        SN2     = 0;
        SN31    = 0;
        SN4     = 0;
        SN41    = 0;
        SN42    = 0;
        WN      = 0;
        WN1     = 0;
        WN11    = 0;
        WN12    = 0;
        WN2     = 0;
        WN31    = 0;
        WN4     = 0;
        WN41    = 0;
        WN42    = 0;
    END; * DOMAIN;
RUN;

%MEND PROCESS3;

*****
* PROCESS OVERALL RESPONSE RATE TABULATION - FORM C
*****
;
%PROCESS(newmerge, C, "J:\&PERIOD\DATA\AFINAL\FMTLIB");

*****
* PROCESS SINGLE DOMAIN RESPONSE RATE TABULATION - FORM C
*****
;
%PROCESS1(tnexsmpl, newmerge, "FORM C",
    "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(enlsmpl, newmerge, "FORM C",
    "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(conus, newmerge, "FORM C",
    "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(agesmpl, newmerge, "FORM C",

```

```

        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(raceethn, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(ebg_com, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(enbgsmpl, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(cacsmpl, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(patcat, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");

*****
* PROCESS DOUBLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****
;
*%PROCESS2(patcat, svcsmpl, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(patcat, sexsmpl, selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(patcat, raceethn,selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(xregion, cacsmpl,selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*****
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****
;
*%PROCESS3(XXXXXXX, XXXXXXX, XXXXXXX, XXXXXXX, "FORM A",
        "D:\KEITH\&PERIOD\DATA\FMTLIB");

        %end; *end of do for each quarter;
        %mend doit;
        %doit;

run;

```

F.10.2WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.IN1 - INCLUDE FILE1 USED TO CALCULATE RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.IN1
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
*          TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
*          2002 DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
*   (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Update for quarterly survey to use BWT
*   instead of BWT99 (generalized variable name for ease of maintenance).
*
*****
* ;
IF _N_ = 1 THEN DO;
  PUT; PUT;
  PUT @001 "TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY";
  PUT @001 "10-19-2004";
  PUT;
  PUT "SUMMARY OF GROUP COUNTS: " &FORM;
  PUT "VARIABLE = " VARIABLE;
  PUT;
  PUT @050 "UNWEIGHTED COUNT"
    @100 "WEIGHTED COUNT"
    ;
  PUT @040 'FLR'
    @050 'FCR'
    @060 'FRR'
    @070 'POP'
    @090 'FLR'
    @100 'FCR'
    @110 'FRR'
    @120 'POP'
    ;
END;
IF FIRST.&DOMAIN1 THEN DO;
  SN    = 0;
  SN1   = 0;
  SN11  = 0;
  SN12  = 0;
  SN2   = 0;
  SN31  = 0;
  SN4   = 0;
  SN41  = 0;
  SN42  = 0;
  WN    = 0;
  WN1   = 0;
  WN11  = 0;
  WN12  = 0;
  WN2   = 0;
  WN31  = 0;
  WN4   = 0;
  WN41  = 0;
  WN42  = 0;
END;
*****
* Accumulate group 1 weighted and unweighted counts
*****
* ;
SN + 1;
WN + BWT;
IF FNSTATUS IN(11,12) THEN DO;
  SN1 + 1;
  WN1 + BWT;
  IF FNSTATUS = 11 THEN DO;
    SN11 + 1;
    WN11 + BWT;
  
```

```

END;
ELSE DO;
    SN12 + 1;
    WN12 + BWT;
END;
END;
*****
* Accumulate group 2 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 20 THEN DO;
    SN2 + 1;
    WN2 + BWT;
END;
*****
* Accumulate group 3 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 31 THEN DO;
    SN31 + 1;
    WN31 + BWT;
END;
*****
* Accumulate group 4 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS IN(41,42) THEN DO;
    SN4 + 1;
    WN4 + BWT;
    IF FNSTATUS = 42 THEN DO;
        SN42 + 1;
        WN42 + BWT;
    END;
ELSE DO;
    SN41 + 1;
    WN41 + BWT;
END;
END;
END;

DROP I;
RETAIN
    SN
    SN1
    SN11
    SN12
    SN2
    SN31
    SN4
    SN41
    SN42
    WN
    WN1
    WN11
    WN12
    WN2
    WN31
    WN4
    WN41
    WN42
;

```

F.10.3WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.IN2 - INCLUDE FILE2 USED TO CALCULATE RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.IN2
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
*          TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
*          QUARTERLY DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
*    (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
*    unweighted (SN) population sizes.
*
*****
*

*Final Response Rate;
FRR1 = SN11/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)) );
FRR2 = WN11/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)) );

*Final Location Rate;
L = ((SN1 + SN2)/(SN1 + SN2 + SN31))*SN41;
WL = ((WN1 + WN2)/(WN1 + WN2 + WN31))*WN41;
FLR1 = (SN1 + SN2 + L)/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)));
FLR2 = (WN1 + WN2 + WL)/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)));

*Final Completion Rate;
FCR1 = SN11/(SN1 + SN2 + L);
FCR2 = WN11/(WN1 + WN2 + WL);
PUT @040 FLR1 4.3
    @050 FCR1 4.3
    @060 FRR1 4.3
    @066 SN 7.0
    @090 FLR2 4.3
    @100 FCR2 4.3
    @110 FRR2 4.3
    @116 WN 7.0
;

```

F.11 WEIGHTING\ADDWGTSC.SAS - MERGE WEIGHTS ONTO DATA FILE.

```

*****
*
* PROGRAM:   ADDWGTS.SAS
* TASK:      DOD HEALTH CARE SURVEY ANALYSIS (6077-220)
* PURPOSE:   MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
*            QUESTIONNAIRE/SAMPLE FILE
*
* WRITTEN:   02/02/2001 BY KEITH RATHBUN
*
* INPUTS:    1) REPWT.SD2 - Final/Replicated Weights file - FORM A
*            2) MERGEC.SD2 - Final FORM C Questionnaire/Sample File
*
* OUTPUTS:   1) HCSyyc_n.SD2 - Final FORM C Questionnaire/Sample File
*            combined with Final/Replicated Weights file - FORM A
*            where yy = Year
*                  c = Child
*                  n = Final Dataset Suffix/Version Number
*
* MODIFIED:  1) 4/23/2002 - DKB added DROP statement to drop the permanent
*            random number variable (PRN) that does not need to be on the
*            final data file sent to DoD
*            2) 4/17/2003 - JA added length statement to order variables from
*            weight file. The variable TREATU_R is positioned after the
*            replicate weights.
*****
;
LIBNAME IN      V612 "..\..\DATA\CFINAL";
LIBNAME OUT     V612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

%MACRO PROCESS(DSNI_1=,DSNI_2=,DSNO=);
*****
* Merge the final weights file with the final Questionnaire/Sample file
*****;
PROC SORT DATA=IN.&DSNI_1 OUT=&DSNI_1; BY MPRID; RUN;
PROC SORT DATA=IN.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;

DATA OUT.&DSNO;
    MERGE &DSNI_2(IN=IN2 DROP=MIQCNTL KATRINA)
          &DSNI_1(IN=IN1 KEEP=MPRID BWT ADJWT POP WRWT WRWT1-WRWT60);
    BY MPRID;
    IF FNSTATUS = 11;
    IF IN1 AND IN2;
    IF NOT (IN1 AND IN2) THEN PUT "ERROR: NO MATCHING MPRID WITH &DSNI_1..SD2 AND &DSNI_2..SD2";
    LABEL KEYCOUNT = "# of Key Questions Answered";
    LABEL WRWT      = "Final Weight";
RUN;

TITLE1 "DOD Quarterly Health Care Survey (6077-210)";
TITLE2 "Program Name: ADDWGTS.SAS By Keith Rathbun";
TITLE3 "Program Inputs: &DSNI_1..SD2 -- &DSNI_2..SD2";
TITLE4 "Program Outputs: &DSNO..SD2";
PROC CONTENTS; RUN;

%MEND PROCESS;

%PROCESS(DSNI_1=REPWT, DSNI_2=MERGEC, DSNO=HCS05C_1);

```

F.12 WEIGHTING\CHILD\PROCCOPC.SAS - CREATE XPORT VERSION FROM DATABASE.

```
*****
*
* PROGRAM: PROCCOPC.SAS
* PURPOSE: Create XPORT file from SD2
* WRITTEN April 26, 2000 BY Keith Rathbun
* TASK: 2005 Child DoD Database Development (6077-300)
*
* INPUTS: 1) HCSyyc_v.SD2 - DoD HCSDB for Child dataset
*
* OUTPUTS: 1) HCSyyc_v.XPT - DoD HCSDB for Child dataset (XPORT)
*           where yy = 2-digit year
*           v = Version Number
*
* NOTES: 1) Be sure to update the global parameters for the current
*          quarter (QTR) with the appropriate dataset name (DSN)
*          prior to running this program.
*
*****
* Define global parameters
*****;
%LET DSN = HCS05C_1;
%LET QTR = ..\..\..\Q3_2005\;
*****
* Define SAS libraries and options
*****;
LIBNAME IN V612 "&QTR.DATA\CFINAL";
*****
* Define SAS Transport file
*****;
LIBNAME OUT XPORT "&QTR.DATA\CFINAL\&DSN..XPT";
*****
* Generate SAS Transport file
*****;
PROC COPY IN=IN OUT=OUT ; * Converts input file to transport file;
      SELECT &DSN;      * Selects SD2 file to copy;
RUN;
```

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APPENDIX G

SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR 2005 TRICARE BENEFICIARY REPORTS

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G.1 REPORTCARDS\CAHPS_CHILDQ32005\STEP1C.SAS - CREATE AND RECODE VARIABLES USED IN CHILD BENEFICIARY REPORTS.

```

*****
*
* PROJECT: DoD - Annual Child Report Cards
* PROGRAM: STEP1C.SAS
* PURPOSE: Create Dummy and Recode Variables used in Child Report Card
*           Create a Female dummy variable
*           Create an Education dummy variable
*           Create 3 super region dummy variables.
*           Create 3 age dummy variables.
*
*           We require the most desired code to be the highest value.
*           Recode the dependent variables into:
*           1 - the least desirable value
*           2 - the 2nd least desirable value
*           3 - the most desirable value
*           . - missing
*
*           Create 7 variables GROUP1 - GROUP7;
*           IF (XINS_COV = 1 AND C05004=4) THEN GROUP1 = 1;
*           IF (XENR_PCM = 1 AND C05004=4) THEN GROUP2 = 1;
*           IF (XENR_PCM = 2 AND C05004=4) THEN GROUP3 = 1;
*           IF XINS_COV IN (2,3) THEN GROUP4 = 1;
*           IF AGEUND6 = 1 THEN GROUP5 = 1;
*           IF AGE0612 = 1 THEN GROUP6 = 1;
*           IF AGE1317 = 1 THEN GROUP7 = 1;
*           GROUP8 is output for all beneficiaries
*
* MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
*           adult report cards. Removed permanent dataset ENTIRE.SD2.
*           2) August 2001 By Keith Rathbun, Updated for 3rd quarter
*           2000 child report cards.
*           3) October 2002 By Mike Scott, Updated for 3rd quarter
*           2002 child report cards.
*           4) September 2003 By Keith Rathbun, Updated for 3rd quarter
*           2003 child report cards.
*           5) November 2003 By Mike Scott, Added V612 to LIBNAME statements.
*           Pointed to CONVERT.SAS on DOD computer instead of J:, updated
*           for 3rd quarter 2003 child report cards.
*           6) October 2005 By Regina Gramss, replaced Claims Processing to
*           Getting Treatment, added Involving Parents
*           7) December 2005 By Regina Gramss, updated field names for 2005.
*
* INPUTS: 1) HCS05C_1.SD2 - DoD Q3 2003 HCS Database
*
* OUTPUTS: 1) GROUP1-8.SD2 - DoD Q3 2003 GROUP files as defined above
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
*           values for consistency w/ TOPS
*
* NOTES: 1) Groups 1-3 modified 10/09/2000
*
*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT V612 "DATA";
LIBNAME IN1 V612 "..\..\..\DATA\CFINAL";

TITLE1 'Program Saved as: STEP1C.SAS';

DATA ENTIRE;
  SET IN1.HCS05C_1(KEEP=
    MPRID
    DAGEQY
    FIELDAGE
    XTSEXREG
    CONUS
    ENBGSMP
    C05004 /* Child enrollment in health plan*/
    C05109 /* Parent Education Level */
    C05104 /* Childs Sex Reported by Parent */
    SEXSMPL /* Childs Sex from DEERS file */
  );

```

```

XBNFGRP
STRATUM
POSTSTR
XINS_COV
XENR_PCM
WRWT
/* Getting Needed Care */
C05009
C05019
C05032
C05034
/* Getting Care Quickly */
C05024
C05028
C05026
C05035
/* How Well Doctors Communicate */
C05038
C05039
C05040
C05042
C05043
/* SPECIAL NEEDS */
C05055
C05058
C05061
/* Courteous and Helpful Office Staff */
C05036
C05037
/* Customer Service */
C05066
C05068
C05070
/* ***** */
C05007 /* Personal Doctor Rating */
C05050 /* Health Care Rating */
C05021 /* Specialist Rating */
C05071 /* Health Plan Rating */
C05107 /* Parent's Age */
C05075 /* Health Status */
/* ***** */
/* Involving Parents */
C05045
C05046
C05047
C05049
);
FORMAT _ALL_;
IF 1 <= XTNEXPREG <= 3 AND FIELDAGE < 18 AND FIELDAGE NE .;
*****
* For now (8-24-2001) the plan is NOT to limit the subset to TRICARE;
* IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;
*****
/* Note: use tmp_cell in step2c.sas */
LENGTH TMP_CELL 8;
TMP_CELL = POSTSTR;
RUN;

*****
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies.
*****;
DATA ENTIRE;
SET ENTIRE;
LENGTH DEFAULT = 4;
*****
* Create child AGE dummies using MPR-calculated child AGE at
* start of fielding period.
*****;
IF FIELDAGE NE " " THEN DO;
AGEUND6 = 0;
AGE0612 = 0;
AGE1317 = 0;

```

```

        IF      (FIELDAGE < 6)          THEN AGEUND6 = 1;
        ELSE IF (6  <= FIELDAGE <= 12) THEN AGE0612 = 1;
        ELSE IF (13 <= FIELDAGE <= 17) THEN AGE1317 = 1;
END;

*****
* Create parent AGE dummies using item response.  These dummy variables
* will be used to adjust the scores based on the parents age.
*****;
IF 1 <= C05107 <= 8 THEN DO;
    AGEUND18 = 0; AGE1824 = 0; AGE2534 = 0; AGE3544 = 0;
    AGE4554 = 0; AGE5564 = 0; AGE6574 = 0; AGE75UP = 0;
    IF      C05107 = 1 THEN AGEUND18 = 1;
    ELSE IF C05107 = 2 THEN AGE1824 = 1;
    ELSE IF C05107 = 3 THEN AGE2534 = 1;
    ELSE IF C05107 = 4 THEN AGE3544 = 1;
    ELSE IF C05107 = 5 THEN AGE4554 = 1;
    ELSE IF C05107 = 6 THEN AGE5564 = 1;
    ELSE IF C05107 = 7 THEN AGE6574 = 1;
    ELSE IF C05107 = 8 THEN AGE75UP = 1;
END;

*****
* Create the FEMALE dummy variable based on childs sex reported by parent.
*****;
IF C05104 = 2 OR SEXSMPL = 2 THEN
    FEMALE = 1;
ELSE
    FEMALE = 0;

*****
* Create the beneficiary group/enrollment group subsets.
*****;
GROUP1 = 0;
GROUP2 = 0;
GROUP3 = 0;
GROUP4 = 0;
GROUP5 = 0;
GROUP6 = 0;
GROUP7 = 0;
GROUP8 = 1;      * EVERYONE;

IF (XINS_COV = 1 AND C05004=4) THEN GROUP1 = 1;
IF (XENR_PCM = 1 AND C05004=4) THEN GROUP2 = 1;
IF (XENR_PCM = 2 AND C05004=4) THEN GROUP3 = 1;
IF XINS_COV IN (2,3)          THEN GROUP4 = 1;
IF AGEUND6 = 1                THEN GROUP5 = 1;
IF AGE0612 = 1                THEN GROUP6 = 1;
IF AGE1317 = 1                THEN GROUP7 = 1;

*-----;
* recode variables with Never, Sometimes, Usually and Always;
* recode Never & Sometimes (1 & 2) to 1.
* recode Usually (3) to 2.
* recode Always (4) to 3.
*-----;
IF      C05024 = 1 THEN R05024 = 1;
ELSE IF C05024 = 2 THEN R05024 = 1;
ELSE IF C05024 = 3 THEN R05024 = 2;
ELSE IF C05024 = 4 THEN R05024 = 3;
ELSE IF C05024 < 0 THEN R05024 = .;

IF      C05028 = 1 THEN R05028 = 1;
ELSE IF C05028 = 2 THEN R05028 = 1;
ELSE IF C05028 = 3 THEN R05028 = 2;
ELSE IF C05028 = 4 THEN R05028 = 3;
ELSE IF C05028 < 0 THEN R05028 = .;

IF      C05026 = 1 THEN R05026 = 1;
ELSE IF C05026 = 2 THEN R05026 = 1;
ELSE IF C05026 = 3 THEN R05026 = 2;
ELSE IF C05026 = 4 THEN R05026 = 3;
ELSE IF C05026 < 0 THEN R05026 = .;

```

```

IF          C05035 = 1 THEN R05035 = 1;
ELSE IF C05035 = 2 THEN R05035 = 1;
ELSE IF C05035 = 3 THEN R05035 = 2;
ELSE IF C05035 = 4 THEN R05035 = 3;
ELSE IF C05035 < 0 THEN R05035 = .;

```

```

IF          C05038 = 1 THEN R05038 = 1;
ELSE IF C05038 = 2 THEN R05038 = 1;
ELSE IF C05038 = 3 THEN R05038 = 2;
ELSE IF C05038 = 4 THEN R05038 = 3;
ELSE IF C05038 < 0 THEN R05038 = .;

```

```

IF          C05039 = 1 THEN R05039 = 1;
ELSE IF C05039 = 2 THEN R05039 = 1;
ELSE IF C05039 = 3 THEN R05039 = 2;
ELSE IF C05039 = 4 THEN R05039 = 3;
ELSE IF C05039 < 0 THEN R05039 = .;

```

```

IF          C05040 = 1 THEN R05040 = 1;
ELSE IF C05040 = 2 THEN R05040 = 1;
ELSE IF C05040 = 3 THEN R05040 = 2;
ELSE IF C05040 = 4 THEN R05040 = 3;
ELSE IF C05040 < 0 THEN R05040 = .;

```

```

IF          C05042 = 1 THEN R05042 = 1;
ELSE IF C05042 = 2 THEN R05042 = 1;
ELSE IF C05042 = 3 THEN R05042 = 2;
ELSE IF C05042 = 4 THEN R05042 = 3;
ELSE IF C05042 < 0 THEN R05042 = .;

```

```

IF          C05043 = 1 THEN R05043 = 1;
ELSE IF C05043 = 2 THEN R05043 = 1;
ELSE IF C05043 = 3 THEN R05043 = 2;
ELSE IF C05043 = 4 THEN R05043 = 3;
ELSE IF C05043 < 0 THEN R05043 = .;

```

```

IF          C05036 = 1 THEN R05036 = 1;
ELSE IF C05036 = 2 THEN R05036 = 1;
ELSE IF C05036 = 3 THEN R05036 = 2;
ELSE IF C05036 = 4 THEN R05036 = 3;
ELSE IF C05036 < 0 THEN R05036 = .;

```

```

IF          C05037 = 1 THEN R05037 = 1;
ELSE IF C05037 = 2 THEN R05037 = 1;
ELSE IF C05037 = 3 THEN R05037 = 2;
ELSE IF C05037 = 4 THEN R05037 = 3;
ELSE IF C05037 < 0 THEN R05037 = .;

```

```

IF          C05045 = 1 THEN R05045 = 1;
ELSE IF C05045 = 2 THEN R05045 = 1;
ELSE IF C05045 = 3 THEN R05045 = 2;
ELSE IF C05045 = 4 THEN R05045 = 3;
ELSE IF C05045 < 0 THEN R05045 = .;

```

```

IF          C05046 = 1 THEN R05046 = 1;
ELSE IF C05046 = 2 THEN R05046 = 1;
ELSE IF C05046 = 3 THEN R05046 = 2;
ELSE IF C05046 = 4 THEN R05046 = 3;
ELSE IF C05046 < 0 THEN R05046 = .;

```

```

IF          C05047 = 1 THEN R05047 = 1;
ELSE IF C05047 = 2 THEN R05047 = 1;
ELSE IF C05047 = 3 THEN R05047 = 2;
ELSE IF C05047 = 4 THEN R05047 = 3;
ELSE IF C05047 < 0 THEN R05047 = .;

```

```

IF          C05049 = 1 THEN R05049 = 1;
ELSE IF C05049 = 2 THEN R05049 = 1;
ELSE IF C05049 = 3 THEN R05049 = 2;
ELSE IF C05049 = 4 THEN R05049 = 3;
ELSE IF C05049 < 0 THEN R05049 = .;

```

```

*-----;
* Recode child's health status

```

```

*-----;

R05075 = C05075; IF R05075 < 0 THEN R05075 = .;

*-----;
* Recode B/S/N variables to one missing condition ".";
*-----;
R05009 = C05009; IF R05009 < 0 THEN R05009 = .;
R05019 = C05019; IF R05019 < 0 THEN R05019 = .;
R05032 = C05032; IF R05032 < 0 THEN R05032 = .;
R05034 = C05034; IF R05034 < 0 THEN R05034 = .;
R05066 = C05066; IF R05066 < 0 THEN R05066 = .;
R05068 = C05068; IF R05068 < 0 THEN R05068 = .;
R05070 = C05070; IF R05070 < 0 THEN R05070 = .;

R05055 = C05055; IF R05055 < 0 THEN R05055 = .;
R05058 = C05058; IF R05058 < 0 THEN R05058 = .;
R05061 = C05061; IF R05061 < 0 THEN R05061 = .;

*-----;
* Recode the CAHPS rating variables.
*-----;
R05050 = C05050; IF R05050 < 0 THEN R05050 = .; *Health Care;
R05007 = C05007; IF R05007 < 0 THEN R05007 = .; *Personal Doctor;
R05071 = C05071; IF R05071 < 0 THEN R05071 = .; *Health Plan;
R05021 = C05021; IF R05021 < 0 THEN R05021 = .; *Specialty Care;

*****
* Create super region dummies.
*****;
IF XTNECREG NE . THEN DO;
  ARRAY REGDUMS (3) REG01 REG02 REG03;
  DO I = 1 TO DIM(REGDUMS);
    REGDUMS(I)=0;
  END;

  IF XTNECREG = 1 THEN REG01 = 1;
  ELSE IF XTNECREG = 2 THEN REG02 = 1;
  ELSE IF XTNECREG = 3 THEN REG03 = 1;
END;
RUN;

*****
* Recode item responses to proportional values using CONVERT.SAS.
*****;
%INCLUDE "CONVERT.SAS";

%CONT1(DSN=ENTIRE, NUM=10, Y=R05009 R05019 R05032 R05034
      R05066 R05068 R05070
      R05055 R05058 R05061);

%CONT2(DSN=ENTIRE, NUM=4, Y=R05050 R05071 R05007 R05021);

%CONT3(DSN=ENTIRE, NUM=15, Y=R05024 R05028 R05026 R05035
      R05038 R05039 R05040 R05042
      R05043 R05036 R05037
      R05045 R05046 R05047 R05049);

*****
* Sort the main file to reorder it by MPRID.
*****;
PROC SORT DATA=ENTIRE; BY MPRID; RUN;

*****
* Print the contents of ENTIRE dataset.
*****;
PROC CONTENTS DATA=ENTIRE;
  TITLE2 'Contents of ENTIRE';
RUN;

*****
* Print some of the key information.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);

```

```

TITLE2 'Print some of the key information';
VAR MPRID
    DAGEQY
    FIELDAGE
    XTNEXREG
    CONUS
    ENBGSMPL
    C05109 /* Parent Education Level */
    C05104 /* Childs Sex Reported by Parent */
    SEXSMPL /* Childs Sex from DEERS file */
    STRATUM
    POSTSTR
    XINS_COV
    XENR_PCM
    WRWT
;
RUN;

*****
* Print AGE and SEX dummy variables.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
    TITLE2 'Print of AGE, SEX and GROUP dummies';
    VAR DAGEQY /* Childs Age Group */
        FIELDAGE /* Childs Age at start of fielding period */
        AGEUND6
        AGE0612
        AGE1317

        C05107 /* Parents Age Group used for adjustment purposes */
        AGEUND18
        AGE1824
        AGE2534
        AGE3544
        AGE4554
        AGE5564
        AGE6574
        AGE75UP

        C05104
        FEMALE
        SEXSMPL

        ENBGSMPL
        XINS_COV
        XENR_PCM
        XBNFGRP
        GROUP1
        GROUP2
        GROUP3
        GROUP4
        GROUP5
        GROUP6
        GROUP7
;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
    TITLE2 'Print of recoded REGION variables';
    VAR REG01
        REG02
        REG03
;
RUN;

PROC FREQ DATA=ENTIRE;
    TITLE2 'FREQ of Childs Age Group variables';
    TABLES FIELDAGE*(AGEUND6 AGE0612 AGE1317)
        /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
    TITLE2 'FREQ of Parents Age Group variables used for adjustment purposes';
    TABLES

```

```

C05107*(AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574 AGE75UP)
/MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Getting Needed Care';
  TABLES C05009*R05009
          C05019*R05019
          C05032*R05032
          C05034*R05034
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Getting Care Quickly';
  TABLES C05024*R05024
          C05028*R05028
          C05026*R05026
          C05035*R05035
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: How Well Doctors Communicate';
  TABLES C05038*R05038
          C05039*R05039
          C05040*R05040
          C05042*R05042
          C05043*R05043
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Courteous and Helpful Office Staff';
  TABLES C05036*R05036
          C05037*R05037
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Customer Service';
  TABLES C05066*R05066
          C05068*R05068
          C05070*R05070
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Getting Treatment';
  TABLES C05055*R05055
          C05058*R05058
          C05061*R05061
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Ratings';
  TABLES C05050*R05050
          C05071*R05071
          C05007*R05007
          C05021*R05021
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Involving Parents';
  TABLES C05045*R05045
          C05046*R05046
          C05047*R05047
          C05049*R05049
          /MISSING LIST;
RUN;

```

```

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: health status';
  TABLES C05075*R05075
    /MISSING LIST;
RUN;
*****
* Create the 7 subgroups for processing by STEP2C.SAS.
*****;
DATA OUT.GROUP1
  OUT.GROUP2
  OUT.GROUP3
  OUT.GROUP4
  OUT.GROUP5
  OUT.GROUP6
  OUT.GROUP7
  OUT.GROUP8;

  SET ENTIRE;

  DROP C05009
    C05019
    C05032
    C05034
    C05024
    C05028
    C05026
    C05035
    C05038
    C05039
    C05040
    C05042
    C05043
    C05036
    C05037
    C05066
    C05068
    C05070
    C05050
    C05071
    C05007
    C05021

    C05055
    C05058
    C05061

    C05045
    C05046
    C05047
    C05049
    C05075
  ;
  IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
  IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;
  IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;
  IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;
  IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;
  IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;
  IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;
  OUTPUT OUT.GROUP8;
RUN;

```

G.2 REPORTCARDS\CAHPS_CHILDQ32005\CONVERT.SAS - CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES.

```
*****
*
* PROGRAM:  CONVERT.SAS
* TASK:    DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE:  CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
*           WITH THE TOPS SURVEY.
* WRITTEN:  October 2000 BY ERIC SCHONE
*
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG.  Also, added DSN
*           to argument lists.
*
* INPUTS:   1) User-specified SAS Dataset
*
* OUTPUTS:  1) User-specified SAS Dataset with recoded values
*
* NOTES:
*
* 1) Arguments for the CONT1-CONT3 macros are as follows:
*   a) SAS dataset name (dsn)
*   b) Number of variables to be converted (num)
*   c) List of variables to be converted (y)
* 2) These macros assume that the response items have already been
*   converted/recoded to CAHPS scales.
*
*****
* CONT1 - Convert big problem, small problem, not a problem questions to
*         proportional values.
*****;
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to &num;
    if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
    if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;

*****
* CONT2 - Convert rating questions to proportional values.
*****;
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
    if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;

*****
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
*         proportional values.
*****;
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
    vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;
```

G.3 REPORTCARDS\CAHPS_CHILDQ32005\STEP2C.SAS - CALCULATE CAHPS ADJUSTED SCORES.

```

/*****
/* Project: DoD - 2003 Child Report Cards
/* Program: STEP2C.SAS
/* Purpose: 2005 Child Report Card
/* Requires program STEP1C.SAS to have been run
/*
/* Modified: 1) August 2001 By Keith Rathbun, Updated for Q3 2000
/*           Child Report Cards.
/*           2) October 2002 By Mike Scott, Updated for Q3 2002
/*           Child Report Cards. Changed INTERCEP to INTERCEPT.
/*           Added V612 to LIBNAME statements.
/*           3) September 2003 By Keith Rathbun, Updated for Q3 2003
/*           Child Report Cards.
/*           4) October 2005 By Regina Gramss, Deleted Claims Processing,
/*           Included Getting Treatment, and Involving Parents.
/*           5) December 2005 By Regina Gramss, Updated field names
/*           for 2005.
/*           6) January 2006 By Regina Gramss, included 2 additional
/*           independent variable of child age (6-12, 13-17).
/*
/* Programming specifications for Child report card
/* The Child report card contains a large number of
/* risk-adjusted scores. Some scores are
/* calculated from responses to individual survey questions.
/* Composite scores are calculated by
/* combining scores from individual questions.
/* The scores then are compared with external civilian
/* benchmarks. The programming tasks involved in building
/* the report card are:
/*     1) preparing data for analyses
/*     2) estimating risk adjustment models
/*     3) calculating risk-adjusted values and variances
/*     4) calculating benchmarks
/*     5) comparing risk-adjusted values to benchmarks
/*        and hypothesis testing
/*
/* SUBGROUPS
/*
/* -----
/*       Seven subgroups           Definitions
/* -----
/* 1. Prime enrollees             XINS_COV = 1 AND C05004=4
/* 2. Enrollees w/mil PCM          XENR_PCM = 1 AND C05004=4
/* 3. Enrollees w/civ PCM          XENR_PCM = 2 AND C05004=4
/* 4. Nonenrollees                XINS_COV IN (2,3)
/* 5. Under Age 6                  AGEUND6 = 1
/* 6. 6-12 Years                   AGE0612 = 1
/* 7. 13-17 Years                  AGE1317 = 1
/*
/* PREV PGM: STEP1C.SAS
/*****/
OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP COMPRESS=YES;
*OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP MPRINT MLOGIC SYMBOLGEN STIMER;
LIBNAME IN1 V612 "DATA";
LIBNAME OUT V612 "DATA";
LIBNAME OUT2 V612 "DATA\CHILDHATFILES";

*-----;
*-      set the parameters here      -;
*-----;

DATA SKELREG;
  INPUT XTNEXREG;
  DATALINES;
    1
    2
    3
  ;
RUN;

* set the number of Dependent variables to process;

```

```

* One does not need to start at 1, but the max must be >= min;
%LET MIN_VAR = 1;
%LET MAX_VAR = 29;

* set the number of subgroups to process;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

* I expect these to remain the same for;
* a particular dependent variable run;
%LET WGT      = WRWT;
%LET IND_VAR1 = R05075;*HEALTH STATUS;
%LET IND_VAR2 = AGE0612;  *CHILD AGE BETWEEN 6-12 / RSG added 01/23/2006;
%LET IND_VAR3 = AGE1317;  *CHILD AGE BETWEEN 13-17 / RSG added 01/23/2006;
%LET DEBUGFLG = 0;      *Set to 1 if you want extra printout;

%LET TITL1 = Prime enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Under Age 6;
%LET TITL6 = Age 6-12;
%LET TITL7 = Age 13-17;
%LET TITL8 = All major groups;

%* GETTING NEEDED CARE;
%LET DEPVAR1 = R05009;
%LET DEPVAR2 = R05019;
%LET DEPVAR3 = R05032;
%LET DEPVAR4 = R05034;

%* GETTING CARE QUICKLY;
%LET DEPVAR5 = R05024;
%LET DEPVAR6 = R05028;
%LET DEPVAR7 = R05026;
%LET DEPVAR8 = R05035;

%* HOW WELL DOCTORS COMMUNICATE;
%LET DEPVAR9  = R05038;
%LET DEPVAR10 = R05039;
%LET DEPVAR11 = R05040;
%LET DEPVAR12 = R05042;
%LET DEPVAR13 = R05043;

%* COURTEOUS AND HELPFUL OFFICE STAFF;
%LET DEPVAR14 = R05036;
%LET DEPVAR15 = R05037;

%* CUSTOMER SERVICE;
%LET DEPVAR16 = R05066;
%LET DEPVAR17 = R05068;
%LET DEPVAR18 = R05070;

%* SPECIAL NEEDS;
%LET DEPVAR19 = R05055;
%LET DEPVAR20 = R05058;
%LET DEPVAR21 = R05061;

%* INVOLVING PARENTS;
%LET DEPVAR22 = R05045;
%LET DEPVAR23 = R05046;
%LET DEPVAR24 = R05047;
%LET DEPVAR25 = R05049;

%* RATING ALL HEALTH CARE: 0 - 10;
%LET DEPVAR26 = R05050;

%* RATING OF HEALTH PLAN: 0 - 10;
%LET DEPVAR27 = R05071;

%* RATING OF PERSONAL DR: 0 - 10;
%LET DEPVAR28 = R05007;

```

```

%* RATING OF SPECIALIST: 0 - 10;
%LET DEPVAR29 = R05021;

%MACRO SCORE;
*****;
* use this macro for all groups;
* super region variables are to be used      ;
*****;
%PUT *****;
%PUT STARTING MACRO SCORE;
%PUT "GROUP      = " GROUP&IGRP;
%PUT "TITLE      = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR    = " &&DEPVAR&IVAR;
%PUT "IND_VAR1   = " &IND_VAR1;
%PUT "IND_VAR2   = " &IND_VAR2;
%PUT "IND_VAR3   = " &IND_VAR3;
%PUT "WGT        = " &WGT;
%PUT *****;

*-----;
* If the current group is 1 use the skeleton files;
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
*-----;
%LET RMRGFILE = OUT.R.&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;

* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGSRREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
        PRED&IGRP RESID&IGRP XTNEXREG &&DEPVAR&IVAR)
        P = PRED&IGRP
        R = RESID&IGRP;

RUN;

* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
        TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR:  file with predicted values and the RESID&IGRP";
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
        VAR MPRID XTNEXREG &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
    RUN;

    PROC PRINT DATA=BETAS;
        TITLE2 "BETAS:  file with coefficients";
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

*-----;
*----- get the standard err/variance ----;
*-----;
%LET DEP = &&DEPVAR&IVAR;
%R_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);

* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
    SET MEANFILE;
    IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';

```

```

DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN COEFFS(I) = 0;
  IF MEANS(I) = . THEN MEANS(I) = 0;
  ADJUST + ( COEFFS(I) * MEANS(I) );
END;
ADJUST = ADJUST + INTERCEPT;
RUN;

* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XTNEXREG NEWADJUST);
  SET ADJUST;
  %INCLUDE 'REGARRAY.INC';
  LENGTH NAME $8;
  DO I=1 TO DIM(REG RHS);
    CALL VNAME(REG RHS(I),NAME);
    XTNEXREG=INPUT(SUBSTR(NAME,4,2),2.);
    IF REG RHS(I) = . THEN REG RHS(I) = 0;
    NEWADJUST=ADJUST + REG RHS(I);
    OUTPUT;
  END;
RUN;

* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
  CLASS XTNEXREG;
  VAR   &WGT;
  OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
RUN;

* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region.  Creates a region level;
* file with the total sample weight of the region;
DATA COEFFREG;
  MERGE COEFFREG(IN=IN1)
        REG_WGTS(IN=IN2  KEEP=XTNEXREG REGCNT&IGRP REGWGT&IGRP);
  BY XTNEXREG;
  IF IN1;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
    TITLE2 'Print of MEANFILE';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

  PROC PRINT DATA=ADJUST;
    TITLE2 'Print of ADJUST';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

  PROC PRINT DATA=COEFFREG;
    TITLE2 'Print of COEFFREG: Region Adjusted Scores';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

  PROC PRINT DATA=REG_WGTS;
    TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

  PROC PRINT DATA=COEFFREG;
    TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;
%END;

```

```

* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
PROC MEANS DATA=COEFFREG NWAY NOPRINT;
  WEIGHT REGWGT&IGRP;
  CLASS XTNEXREG;
  VAR NEWADJUST;
  OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=REGFILE1;
    TITLE2 'Print of REGFILE1: Region Scores';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;
%END;

* merge the previous groups region results (if any);
* with the region level std errs and the region;
* level results from catchment results collapsed to region;
DATA OUT.R_&&DEPVAR&IVAR;
  MERGE &RMRGFILE(IN=INS)
        R&IGRP&&DEPVAR&IVAR
        REG_WGTS(KEEP = REGCNT&IGRP REGWGT&IGRP XTNEXREG)
        REGFILE1(KEEP = ADJ&IGRP XTNEXREG);
  BY XTNEXREG;
  DEPENDNT = "&&DEPVAR&IVAR";
  IF INS;
RUN;

* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
DATA OUT.R_&&DEPVAR&IVAR;
  MERGE OUT.R_&&DEPVAR&IVAR(IN=INS)
        R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
        REG_WGTS
        REGFILE1;
  BY XTNEXREG;
  DEPENDNT = "&&DEPVAR&IVAR";
  IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
  TITLE2 "Print of XTNEXREG variables in &&DEPVAR&IVAR";
  TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
RUN;

%MEND SCORE;

%MACRO MAKE_INC;
*****;
* creates include files for later Procs;
* Needs to be run each time. Called ;
* in the outer (beneficiary loop). ;
* I chose this method because it was ;
* clearer(to me at least). ;
* This macro needs to be run once per ;
* Dep var per subgroup. ;
*****;

* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
DATA GROUP&IGRP;
  SET IN1.GROUP&IGRP;
  IF &&DEPVAR&IVAR NOT = .;
RUN;

DATA _NULL_;
  SET GROUP&IGRP END = EOF;
  IF &&DEPVAR&IVAR NOT = .;

  ARRAY AGECONT(8) 8 aCNT1 - aCNT8;
  RETAIN AGECONT 0;

```

```

RETAIN CNT 0;
ARRAY AGENAM(8) $8 AGENAM1 - AGENAM8;
ARRAY AGENAMX(8) $8 AGENAMX1 - AGENAMX8;
RETAIN AGENAM;
RETAIN AGENAMX;
ARRAY REGCNT(3) 8 REGCNT01 - REGCNT3;
RETAIN CATCNT 0;
RETAIN REGCNT 0;

* create a name array for the parent age dummies;
IF _N_ = 1 THEN DO;
    AGENAM(1) = "AGEUND18";
    AGENAM(2) = "AGE1824";
    AGENAM(3) = "AGE2534";
    AGENAM(4) = "AGE3544";
    AGENAM(5) = "AGE4554";
    AGENAM(6) = "AGE5564";
    AGENAM(7) = "AGE6574";
    AGENAM(8) = "AGE75UP";
END;

* total record count;
CNT + 1;

* count records in each age group;
* we will use only age groups with more;
* than 2 obs;
IF AGEUND18 = 1 THEN AGECONT(1) + 1;
IF AGE1824 = 1 THEN AGECONT(2) + 1;
IF AGE2534 = 1 THEN AGECONT(3) + 1;
IF AGE3544 = 1 THEN AGECONT(4) + 1;
IF AGE4554 = 1 THEN AGECONT(5) + 1;
IF AGE5564 = 1 THEN AGECONT(6) + 1;
IF AGE6574 = 1 THEN AGECONT(7) + 1;
IF AGE75UP = 1 THEN AGECONT(8) + 1;

* count records in each SUPREG group;
* we will only use SUPER REGIONS ;
* with more than than 2 obs;
* I am using the region value as the subscript;
* to make the code simpler and more readable;
IF 1<= XTNECREG <= 3 THEN DO;
    REGCNT(XTNECREG) = REGCNT(XTNECREG) + 1;
END;

IF EOF THEN GOTO ENDFILE;
RETURN;

ENDFILE:
* create a title common to all procs in the current group;
TITLE " &&DEPVAR&IVAR &&TITL&IGRP";

* display counts in the log;
%IF &DEBUGFLG > 0 %THEN %DO;
    PUT ' ';
    PUT 'AT EOF:';
    PUT "TOTAL CNT = " CNT;
    PUT AGENAM(1) " " AGECONT(1)=;
    PUT AGENAM(2) " " AGECONT(2)=;
    PUT AGENAM(3) " " AGECONT(3)=;
    PUT AGENAM(4) " " AGECONT(4)=;
    PUT AGENAM(5) " " AGECONT(5)=;
    PUT AGENAM(6) " " AGECONT(6)=;
    PUT AGENAM(7) " " AGECONT(7)=;
    PUT AGENAM(8) " " AGECONT(8)=;
    PUT " ";

    DO I = 1 TO 3;
        IF(REGCNT(I) > 0) THEN DO;
            PUT 'REG' I Z2. REGCNT(I) 6.;
        END;
    END;
    PUT ' ';

```

```

%END;    *** of debug test;

*-----;
* This include is for the regression using regions;
* in this case we drop the last REGION;
FILE 'REGRSREG.INC';
PUT @6  "MODEL  &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */

CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 8;
  IF AGEcnt(I) > 1 THEN DO;
    CNT2 +1;
    AGENAMX(CNT2) = AGENAM(I);
  END;
END;

* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;

* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0;
DO I = 1 TO 3;    * skip the 1st region with 1+ obs;
  IF REGcnt(I) > 0 THEN DO;
    IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
    FIRST = 1;
  END;
END;
PUT @11 ' ';

*-----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10  "VAR";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
END;

* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

```

```

*-----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
    PUT @12 AGENAMX(I);
END;

CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY of mean names for the output;
* from a proc MEANS of the Risk Factors in RISKARRY;
FILE 'RISKMEAN.INC';
IND_CNT = CNT2 + CNT3;
PUT @6 "ARRAY MEANS(*) $8";
DO I = 1 TO IND_CNT;
    PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

* -----;
* create the equivalent of the following statement;
* OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
FILE 'MEANFILE.INC';
PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
DO I = 1 TO IND_CNT;
    PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create a super region area array;
* with at least ONE obs;
FILE 'REGARRAY.INC';
PUT @10 "ARRAY REGRHS(*) $8";
DO I = 1 TO 3;
    IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
        PUT @16 'REG' I Z2.;
    END;
END;
PUT @11 ' ';
RUN;

* Create the means of the adjuster variables;
* They will be used to replace missing adjuster variables;
* calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
    WEIGHT &WGT;
    %INCLUDE 'RISKVARS.INC';
    %INCLUDE 'MEANFILE.INC';
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;

```

```

PROC PRINT DATA=MEANFILE;
    TITLE2 "Print of MEANFILE for Risk Adjuster variables";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
RUN;
%END;

DATA GROUP&IGRP;
    SET GROUP&IGRP;
    IF _N_ = 1 THEN SET MEANFILE;
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
        IF COEFFS(I) = . THEN DO;
            COEFFS(I) = MEANS(I);
        END;
    END;
RUN;

%MEND MAKE_INC;

%MACRO R_SUDAAN(INFILE);
*****;
* use this macro to create standard err (variances);
* FOR: REGIONS ;
*****;
%PUT *****;
%PUT STARTING MACRO R_SUDAAN (XTNEXREG);
%PUT *****;

DATA &INFILE;
    SET &INFILE;
    IF 1<= XTNEXREG <=3;
RUN;

* Sort data by STRATUM;
PROC SORT DATA=&INFILE;
    BY TMP_CELL;
RUN;

%IF &DEBUGFLG > 5 %THEN %DO;
    PROC PRINT DATA=&INFILE(OBS=5);
        TITLE2 'Print of the input file to SUDAAN (SUPER REGION)';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate values for super regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / missunit;
    VAR RESID&IGRP;
    TABLES XTNEXREG;
    SUBGROUP XTNEXREG;
    LEVELS 3;
    OUTPUT SEMEAN
        / TABLECELL=DEFAULT REPLACE
        FILENAME=RS&DEP;
RUN;

DATA R&IGRP&&DEPVAR&IVAR;
    SET RS&DEP;
    KEEP XTNEXREG SEMEAN;
    IF SEMEAN NE .;
    RENAME SEMEAN = SEMEAN&IGRP;
RUN;

PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print REGION DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
RUN;

%MEND R_SUDAAN;

```

```

%*****;
%*   call the macros;
%*****;

%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
%*   loop over the set of dependent variables;
%DO IVAR = &MIN_VAR %TO &MAX_VAR;
%DO IGRP = &MIN_GRP %TO &MAX_GRP;
%MAKE_INC;
%SCORE;
%END;
%END;
%MEND;

%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);

```

G.4 REPORTCARDS\CAHPS_CHILDQ32005\COMPOSIT.SAS - CALCULATE CAHPS COMPOSITE SCORES.

```

/*****
/* Project: DoD - 2005 Q3 Child Report Cards
/* Program: COMPOSIT.SAS
/* Purpose: Child Report Card
/* Requires programs STEP1C and STEP2C.SAS
/*
/* Modified: 1) Keith Rathbun, 07/18/2000: Updated for child survey.
/*           Added processing for 5th dependent variable. Update
/*           macro calls.
/*           2) Keith Rathbun, 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
/*           accommodate the move of ALLSCORE.SAS functionality into the
/*           STEP2Q.SAS program.
/*           3) Keith Rathbun, 08/24/2001: Updated for Q3 2000 child survey.
/*           4) Mike Scott, 10/30/2002: Updated for Q3 2002 child survey.
/*           5) Keith Rathbun, 09/19/2003: Updated for Q3 2003 child survey.
/*           6) Mike Scott, 11/24/2003: Added V612 to LIBNAME statements.
/*           7) Regina Gramss, 10/14/2005: Deleted Claims Processing,
/*           included Getting Treatment, and Involving Parents.
/*           8) Regina Gramss, 12/30/2005: Updated field names for 2005.
/*           9) Regina Gramss, 01/20/2006: Add in new composite Involve Parents and Special Needs.
/*
/*****
/*****
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES;
libname in V612 "data";
libname in2 V612 "data\childhatfiles";
libname out V612 "data";

%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,VAR5=,QCOUNT=);

DATA _NULL_;
  %IF "&TYPE" = "R" %THEN %DO;
    CALL SYMPUT ('BYVAR','XTNEXREG');
  %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
    CALL SYMPUT ('BYVAR','CACSMPL');
  %END;

*****
* Create a Composite Score ;
*****
DATA _NULL_;
  FILE 'FILES.INC';
  PUT @6 'SET';
  IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
  IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";
  IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
  IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
  IF "&VAR5" NE '' THEN PUT @8 "IN.&TYPE._&VAR5";
  PUT @8 ' ';
RUN;

DATA COMPOS&COMPOS;
  LENGTH DEPENDNT $ 8;
  %INCLUDE 'FILES.INC';
  DEPENDNT = "&TYPE.COMPOS&COMPOS";
RUN;

PROC SORT DATA=COMPOS&COMPOS;
  BY &BYVAR;
RUN;

PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
  TITLE "Print of COMPOS&COMPOS after sort";
RUN;

DATA COMPOS&COMPOS;
  SET COMPOS&COMPOS;
  BY &BYVAR;
  %IF "&TYPE" = "R" %THEN %DO;
    ARRAY N(*) REGCNT1 - REGCNT8;

```

```

        ARRAY W(*) REGWGT1 - REGWGT8;
        ARRAY TN(*) TOTCNT1 - TOTCNT8;
        ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END; %ELSE
%IF "&TYPE" = "C" %THEN %DO;
        ARRAY N(*) CATCNT1 - CATCNT8;
        ARRAY W(*) CATWGT1 - CATWGT8;
        ARRAY TN(*) TOTCNT1 - TOTCNT8;
        ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END;
        ARRAY ADJ(*)      ADJ1 - ADJ8;
        ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
        ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
        RETAIN TOTADJ TN TW;
        RETAIN AVGADJ;

        IF FIRST.&BYVAR THEN DO;
            DO I = 1 TO DIM(TOTADJ);
                TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
            END;
        END; DROP I;

        PUT ' ';
        PUT ' --- STARTING LOOP1: ' &BYVAR=;
        DO I = 1 TO DIM(TOTADJ);
            PUT I= ADJ(I)=;
            IF ADJ(I) NE . THEN DO;
                TOTADJ(I) = TOTADJ(I) + ADJ(I);
                TN(I)=TN(I)+N(I);
                TW(I)=TW(I)+W(I);
            END;
            PUT I= ADJ(I)= TOTADJ(I)=;
        END;

        PUT ' ';
        PUT ' --- STARTING LOOP2: ' &BYVAR=;
        IF LAST.&BYVAR THEN DO;
            DO I = 1 TO DIM(TOTADJ);
                PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
                AVGADJ(I) = TOTADJ(I)/&QCOUNT;
                adj(i)=avgadj(i);
                N(I)=TN(I)/&QCOUNT;
                W(I)=TW(I)/&QCOUNT;
            END;
            OUTPUT;
        END;

RUN;

%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i>4) %then %do;
%if &var1~= %then %do;
%let n=r_&var1;
%let m=s_&var1;

data s_&var1(rename=(semean&i=s_&var1));
set in.&type._&var1(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var1;
set in2.h&i.&var1(rename=(resid&i=r_&var1));
proc sort data=r_&var1; by mprid;
%end;

%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semean&i=s_&var2));
set in.&type._&var2(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var2;
set in2.h&i.&var2(rename=(resid&i=r_&var2));
proc sort data=r_&var2; by mprid;

```

```

%end;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;
set in2.h&i.&var3(rename=(resid&i=r_&var3));
proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;

%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;
set in2.h&i.&var4(rename=(resid&i=r_&var4));
%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;

%if &var5~= %then %do;
%let n=%str(&n r_&var5);
data s_&var5(rename=(semean&i=s_&var5));
set in.&type._&var5(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var5;
set in2.h&i.&var5(rename=(resid&i=r_&var5));
%let m=%str(&m s_&var5);
proc sort data=r_&var5; by mprid;
%end;

/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight wrwt;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if _name_="R_&var&j" then
sde=sum(sde,r_val(i)*s_&var&j*s_val(i));
%end;
end;
data sefin&compos._&i ERROR;
set final;
by &byvar;
if first.&byvar then tv=0;
tv+sde;
if last.&byvar then do;
if tv >= 0 then sde&i=(tv**.5)/&qcount; /* RSG 06/22/2004 change to only do the power calculation
if the tv value is nonnegative*/
else if tv < 0 then do; /* RSG 06/22/2004 those with negative trend is set aside to print out*/
output error; /* and determine whether it is from nonmissing data of
30 or more*/
sde&i=.;
end;
output sefin&compos._&i;
end;

```

```

run;
/* RSG 06/22/2004 - count how many nonmissing values are in the trend data
   to determine whether the negative trend in above datastep
   (tv < 0) is something to be concerned about */
proc means data=infile noprint;
by &byvar;
var &n;
output out=miss (drop=_type_ _freq_) n=;
data error2;
merge error(in=a drop=&n) miss(in=b);
by &byvar;
if a;
run;
proc print data=error2; /* RSG 06/22/2004 print out negative trend data and count of nonmissing
data*/
var &byvar tv &n;
title "ERROR: NEGATIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS.";
run;
title ' ' ; /** RSG 06/22/2004 - BLANK OUT TITLE FOR NEXT LOOP **/

%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;

%end;
%end;

data out.&type.compos&compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;

*-----;
*-      set the parameters here      -;
*-----;
*****;
* call the macro for each composite;
*****;
%COMPOSIT (type=R,compos=1,var1=R05009,var2=R05019,var3=R05032,var4=R05034,qcount=4);
%COMPOSIT (type=R,compos=2,var1=R05024,var2=R05028,var3=R05026,var4=R05035,qcount=4);
%COMPOSIT (type=R,compos=3,var1=R05038,var2=R05039,var3=R05040,var4=R05042,var5=R05043,qcount=5);
%COMPOSIT (type=R,compos=4,var1=R05036,var2=R05037,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R05066,var2=R05068,var3=R05070,qcount=3);
%COMPOSIT (type=R,compos=6,var1=R05055,var2=R05058,var3=R05061,qcount=3);
%COMPOSIT (type=R,compos=7,var1=R05045,var2=R05046,var3=R05047,var4=R05049,qcount=4);

```

G.5 LOADWEB\CAHPS_CHILDQ32005\LOADCAHC.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT.

```
*****
*
* PROGRAM:   LOADCAHC.SAS
* TASK:      2005 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE:   Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN:   07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 10/30/2002 BY MIKE SCOTT to support the Q3 2002 child report cards.
* 3) 09/18/2003 BY KEITH RATHBUN to support the Q3 2003 child report cards
* 4) 01/09/2005 BY REGINA GRAMSS to support Q3 2004 child report cards
* 5) 01/20/2005 BY REGINA GRAMSS to support Q3 2005 child report cards, add
*    in new composite scores.
*
* INPUTS:    1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:     1) LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES:   1) LOADCAHC.INC - Format definitions for CAHPS Individual
*              and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - STEP1C.SAS - Recode questions and generate group files
*    - STEP2C.SAS - Calculate individual adjusted scores for group 1-7
*    - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHC.SD2) will be run through the
*    MAKEHTMC.SAS program to generate the WEB pages.
*
* 3) This program is a modified version of LOADCAHP.SAS adapted to meet
*    the requirements of the child report card.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      V612 "..\..\ReportCards\CAHPS_ChildQ32005\Data";
LIBNAME OUT     V612 "DATA";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MLOGIC MPRINT;

*LIBNAME IN      V612 "M:\Q3_2005\PROGRAMS\ReportCard\CAHPS_ChildQ32005\Data";
*LIBNAME OUT     V612 "M:\Q3_2005\Programs\Loadweb\CAHPS_ChildQ32005\DATA";
*LIBNAME LIBRARY V612 "M:\Q3_2005\DATA\CFINAL\FMTLIB";

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADCAHC.INC";

*****
* Process Macro Input Parameters:
*
* 1) QUESTION = Variable Question Name (DSN).
*    - For individual Questions it is the variable name
*    - For composite Questions it is called xCOMPOSn
*      where n = a predefined composite # and
*            x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
*
*****
*****;
%MACRO PROCESS(QUESTION=,TYPE=);
```



```

*****
* 1 = Prime Enrollees
*****;
MAJGRP = PUT(1,ROWCATF.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;
*****
* 2 = Enrollees with Military PCM
*****;
MAJGRP = PUT(2,ROWCATF.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N_WGT = &PREFIX.WGT2;
OUTPUT;
*****
* 3 = Enrollees with Civilian PCM
*****;
MAJGRP = PUT(3,ROWCATF.);
SCORE = ADJ3;
SEMEAN = SEMEAN3;
N_OBS = &PREFIX.CNT3;
N_WGT = &PREFIX.WGT3;
OUTPUT;

*****
* 4 = Non-enrolled Beneficiaries
*****;
MAJGRP = PUT(4,ROWCATF.);
SCORE = ADJ4;
SEMEAN = SEMEAN4;
N_OBS = &PREFIX.CNT4;
N_WGT = &PREFIX.WGT4;
OUTPUT;

*****
* 5 = Under Age 6
*****;
MAJGRP = PUT(5,ROWCATF.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;
N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;

*****
* 6 = Age 6-12
*****;
MAJGRP = PUT(6,ROWCATF.);
SCORE = ADJ6;
SEMEAN = SEMEAN6;
N_OBS = &PREFIX.CNT6;
N_WGT = &PREFIX.WGT6;
OUTPUT;

*****
* 7 = Age 13-17
*****;
MAJGRP = PUT(7,ROWCATF.);
SCORE = ADJ7;
SEMEAN = SEMEAN7;
N_OBS = &PREFIX.CNT7;
N_WGT = &PREFIX.WGT7;
OUTPUT;

*****
* 8 = CONUS MHS                ALL Beneficiaries
*****;
MAJGRP = PUT(8,ROWCATF.);

```

```

SCORE = ADJ8;
SEMEAN = SEMEAN8;
N_OBS = &PREFIX.CNT8;
N_WGT = &PREFIX.WGT8;
OUTPUT;

KEEP MAJGRP
    REGION
    REGCAT
    BENTYPE
    BENEFIT
    TIMEPD /*MJS 07/03/03 Added*/
    SCORE
    SEMEAN
    N_OBS
    N_WGT
    SIG
;
RUN;

%MEND;

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05009,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05019,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05032,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05034,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05024,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05028,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05026,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05035,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05038,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05039,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05040,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05042,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05043,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05036,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05037,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05066,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05068,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05070,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 6.

```

```

* SPECIAL NEEDS.
*****;
%PROCESS(QUESTION=RCOMPOS6,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05055,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05058,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05061,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 7.
* INVOLVING PARENTS.
*****;
%PROCESS(QUESTION=RCOMPOS7,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R05045,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05046,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05047,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R05049,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R05050,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(QUESTION=R_R05071,TYPE=INDIVIDUAL)

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(QUESTION=R_R05007,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALIST: 0 - 10.
*****;
%PROCESS(QUESTION=R_R05021,TYPE=INDIVIDUAL);

*****
*****
* STACK up all of the files into one final output dataset.
*****
*****;

DATA OUT.LOADCAHC;
  SET R_R05009
      R_R05007
      R_R05019
      R_R05021
      R_R05032
      R_R05034
      R_R05024
      R_R05028
      R_R05026
      R_R05035
      R_R05038
      R_R05039
      R_R05040
      R_R05042
      R_R05043
      R_R05050

      R_R05055
      R_R05058
      R_R05061

      R_R05045
      R_R05046
      R_R05047
      R_R05049

      R_R05036

```

```

R_R05037
R_R05066
R_R05068
R_R05070
R_R05071
RCOMPOS1
RCOMPOS2
RCOMPOS3
RCOMPOS4
RCOMPOS5
RCOMPOS6
RCOMPOS7
;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2005 DOD Health Survey Scores/Report Cards (6077-410)";
TITLE2 "Program Name: LOADCAHC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
      /MISSING LIST;
RUN;

```

G.6 LOADWEB\LOADCAHC.INC - FORMAT DEFINITIONS FOR CONVERTING THE SCORES DATABASE INTO THE WEB LAYOUT.

```

*****
*
* PROGRAM:   LOADCAHC.INC
* TASK:      2005 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE:   Format definitions for converting the CAHPS Scores Database
*            into the WEB layout
*
* WRITTEN:   07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 11/15/2002 BY KEITH RATHBUN, Added parameters for 2002 survey. Also
*    added BENTYPF = 2001-2005.
* 3) 09/18/2003 BY KEITH RATHBUN, Added parameters for 2003 survey.
* 4) 10/14/2005 BY REGINA GRAMSS, Added Benefit Getting Treatment,
*    and Involving Parents to $BENTYPEF, $BENEF, and $GETTX, $INVRENT
*
* INPUTS:    No direct input
*
* OUTPUT:     No direct output
*
*****
;
*****
* FORMAT Definitions
*****
PROC FORMAT;
  VALUE MAJGRPF
    0 = "All Children"
    1 = "Children in New Regions (1, 2, & 5)"
    2 = "Children in Mature Regions (6, 9-12, & 16)"
    3 = "Children in Other Regions (3, 4, & 7/8)"
  ;
  VALUE ROWCAT2F
    1 = "Benchmark"
    2 = "CONUS MHS" /* ALL Beneficiaries */
    3 = "Prime Enrollees" /* XINS_COV = 1 AND C02003 = 4 */
    4 = "Enrollees with Military PCM" /* XENR_PCM = 1 AND C02003 = 4 */
    5 = "Enrollees with Civilian PCM" /* XENR_PCM = 2 AND C02003 = 4 */
    6 = "Non-enrolled Beneficiaries" /* XINS_COV IN (2,3) */
    7 = "Children Under Age 6" /* AGEUND6 = 1 */
    8 = "Children 6-12 Years" /* AGE0612 = 1 */
    9 = "Children 13-17 Years" /* AGE1317 = 1 */
  ;
  VALUE ROWCATF
    1 = "Prime Enrollees" /* XINS_COV = 1 AND C02003 = 4 */
    2 = "Enrollees with Military PCM" /* XENR_PCM = 1 AND C02003 = 4 */
    3 = "Enrollees with Civilian PCM" /* XENR_PCM = 2 AND C02003 = 4 */
    4 = "Non-enrolled Beneficiaries" /* XINS_COV IN (2,3) */
    5 = "Children Under Age 6" /* AGEUND6 = 1 */
    6 = "Children 6-12 Years" /* AGE0612 = 1 */
    7 = "Children 13-17 Years" /* AGE1317 = 1 */
    8 = "CONUS MHS" /* ALL Beneficiaries */
  ;
  VALUE REGIONF
    0 = "CONUS MHS"
    1 = "North"
    2 = "South"
    3 = "West"
    4 = "Benchmark"
  ;
  VALUE $BENTYPF
    "2000" = "2000"
    "2001" = "2001"
    "2002" = "2002"
    "2003" = "2003"
    "2004" = "2004"
    "2005" = "2005"

```

```

/*****
/* Admin. Year Defn.
/* 2001      2002      2003      2004      2005 */
/*****
R00006  " , "R02006" , "R03006" , "R04008" , "R05009" = "Problems Getting Personal Doctor/Nurse"
R00014  " , "R02014" , "R03019" , "R04018" , "R05019" = "Problems Getting to See Specialist"
R00031  " , "R02031" , "R03036" , "R04031" , "R05032" = "Problems Getting Necessary Care"
R00032  " , "R02032" , "R03037" , "R04033" , "R05034" = "Delays in Care While Awaiting Approval"
R00019  " , "R02019" , "R03024" , "R04023" , "R05024" = "Advice over Telephone"
R00021  " , "R02021" , "R03026" , "R04027" , "R05028" = "Wait for Routine Visit"
R00024  " , "R02024" , "R03032" , "R04025" , "R05026" = "Wait for Urgent Care"
R00033  " , "R02033" , "R03038" , "R04034" , "R05035" = "Wait in Doctor's Office"
R00036  " , "R02036" , "R03041" , "R04037" , "R05038" = "Listens Carefully"
R00037  " , "R02037" , "R03042" , "R04038" , "R05039" = "Explains so you can Understand"
R00038  " , "R02038" , "R03043" , "R04039" , "R05040" = "Shows Respect"
R00040  " , "R02040" , "R03045" , "R04041" , "R05042" = "Explains so your child can Understand"
R00041  " , "R02041" , "R03046" , "R04042" , "R05043" = "Spends Time with your child"
R00034  " , "R02034" , "R03039" , "R04035" , "R05036" = "Courteous and Respectful"
R00035  " , "R02035" , "R03040" , "R04036" , "R05037" = "Helpful"
R00049  " , "R02049" , "R03077" , "R04073" , "R05066" = "Problem Finding/Understanding Written
Material"
R00051  " , "R02051" , "R03079" , "R04075" , "R05068" = "Problem Getting Help from Customer Service"
R00056  " , "R02056" , "R03084" , "R04077" , "R05070" = "Problem with Paperwork"
R00045  " , "R02045" , "R03073" , "R04069" = "Claims Handled in a Reasonable Time"
R00046  " , "R02046" , "R03074" = "Claims Handled Correctly"
R00042  " , "R02042" , "R03056" , "R04052" , "R05050" = "Health Care"
R00057  " , "R02057" , "R03085" , "R04078" , "R05071" = "Health Plan"
R00008  " , "R02008" , "R03013" , "R04006" , "R05007" = "Personal Doctor or Nurse"
R00016  " , "R02016" , "R03021" , "R04020" , "R05021" = "Speciality Care"
          "R03062" , "R04058" , "R05055" = "Problems Getting Special Medical Equipment"
          "R03065" , "R04061" , "R05058" = "Problems Getting Special Therapy"
          "R03068" , "R04064" , "R05061" = "Problems Getting Treatment or Counseling"
          "R03048" , "R04044" , "R05045" = "Make Easy To Discuss Questions"
          "R03049" , "R04045" , "R05046" = "Get Information Needed From Doctor"
          "R03050" , "R04046" , "R05047" = "Questions Answered By Doctor"
          "R03055" , "R04051" , "R05049" = "Doctor Involves Parent In Decision"
;
VALUE $BENEF
"RCOMPOS1" , "R00006" , "R00014" , "R00031" , "R00032" ,
          "R02006" , "R02014" , "R02031" , "R02032" ,
          "R03006" , "R03019" , "R03036" , "R03037" ,
          "R04008" , "R04018" , "R04031" , "R04033" ,
          "R05009" , "R05019" , "R05032" , "R05034"
= "Getting Needed Care"
"RCOMPOS2" , "R00019" , "R00021" , "R00024" , "R00033" ,
          "R02019" , "R02021" , "R02024" , "R02033" ,
          "R03024" , "R03026" , "R03032" , "R03038" ,
          "R04023" , "R04027" , "R04025" , "R04034" ,
          "R05024" , "R05028" , "R05026" , "R05035"
= "Getting Care Quickly"
"RCOMPOS3" , "R00036" , "R00037" , "R00038" , "R00040" , "R00041" ,
          "R02036" , "R02037" , "R02038" , "R02040" , "R02041" ,
          "R03041" , "R03042" , "R03043" , "R03045" , "R03046" ,
          "R04037" , "R04038" , "R04039" , "R04041" , "R04042" ,
          "R05038" , "R05039" , "R05040" , "R05042" , "R05043"
= "How Well Doctors Communicate"
"RCOMPOS4" , "R00034" , "R00035" ,
          "R02034" , "R02035" ,
          "R03039" , "R03040" ,
          "R04035" , "R04036" ,
          "R05036" , "R05037"
= "Courteous and Helpful Office Staff"
"RCOMPOS5" , "R00049" , "R00051" , "R00056" ,
          "R02049" , "R02051" , "R02056" ,
          "R03077" , "R03079" , "R03084" ,
          "R04073" , "R04075" , "R04077" ,
          "R05066" , "R05068" , "R05070"
= "Customer Service"
"RCOMPOS6" , "R00045" , "R00046" ,
          "R02045" , "R02046" ,
          "R03062" , "R03065" , "R03068" ,
          "R04058" , "R04061" , "R04064" ,
          "R05055" , "R05058" , "R05061"
= "Special Needs"

```

```

"RCOMPOS7", "R03048", "R03049", "R03050", "R03055",
    "R04044", "R04045", "R04046", "R04051",
    "R05045", "R05046", "R05047", "R05049"
= "Involving Parents"

/*****
/* Admin. Year Defn. */
/* 2001      2002      2003      2004      2005*/
*****/
"R00042", "R02042", "R03056", "R04052", "R05050" = "Health Care"
"R00057", "R02057", "R03085", "R04078", "R05071" = "Health Plan"
"R00008", "R02008", "R03013", "R04006", "R05007" = "Personal Doctor or Nurse"
"R00016", "R02016", "R03021", "R04020", "R05021" = "Specialty Care"
;

VALUE BEN
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'How Well Doctors Communicate'
4 = 'Courteous and Helpful Office Staff'
5 = 'Customer Service'
6 = 'Health Plan'
7 = 'Health Care'
8 = 'Personal Doctor or Nurse'
9 = 'Specialty Care'
10 = 'Involving Parents'
11 = 'Special Needs'
;

VALUE GETNCARE
1 = "Problems Getting Personal Doctor/Nurse"
2 = "Problems Getting to See Specialist"
3 = "Problems Getting Necessary Care"
4 = "Delays in Care While Awaiting Approval"
5 = "Composite";

VALUE GETCAREQ
1 = "Advice over Telephone"
2 = "Wait for Routine Visit"
3 = "Wait for Urgent Care"
4 = "Wait in Doctor's Office"
5 = "Composite";

VALUE CRTSHELP
1 = "Courteous and Respectful"
2 = "Helpful"
3 = "Composite";

VALUE HOWWELL
1 = "Listens Carefully"
2 = "Explains so you can Understand"
3 = "Explains so your child can Understand"
4 = "Shows Respect"
5 = "Spends Time with your child"
6 = "Composite";

VALUE CUSTSERV
1 = "Problem Finding/Understanding Written Material"
2 = "Problem Getting Help from Customer Service"
3 = "Problem with Paperwork"
4 = "Composite";

VALUE SPECIAL
1 = "Problems Getting Special Medical Equipment"
2 = "Problems Getting Special Therapy"
3 = "Problems Getting Treatment or Counseling"
4 = "Composite";

VALUE INVRENT
1 = "Make Easy To Discuss Questions"
2 = "Get Information Needed From Doctor"
3 = "Questions Answered By Doctor"
4 = "Doctor Involves Parent In Decision"
5 = "Composite";

```

RUN;

G.7 BENCHMARK\BENCHC01.SAS - EXTRACT CHILD CAHPS QUESTIONS FROM NCBD.

```

*****
*
* PROGRAM:  BENCHC01.SAS
* TASK:     2005 DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE:  Extract 2001 Child CAHPS Questions
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*             accommodate the 2000 Q3 Child DOD survey.  Removed unnecessary
*             references to C99D65.
*           2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*           3) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*             accommodate the 2002 Q3 Child DOD survey.
*           4) 12/03/2003 BY MIKE SCOTT, Updated variable and question names
*             for Q4 2003 Child survey. Deleted line in first data step:
*             IF CC37=. THEN CC38=. Added code to make PRODUCT numeric for
*             NEST statement in BENCHC04_5. Added V612 to libnames.
*           5) 01/09/2006 BY REGINA GRAMSS, updated to use 2004 benchmark data.
*           6) 01/11/2006 BY REGINA GRAMSS, updated field names for 2005. Limit
*             data to child less than 18 and delete missing age children.
*
* INPUTS:   1) CC2004DB.SD2 - 2004 Child CAHPS Questions
*
* OUTPUT:   1) BENCHC01.SD2 - 2004 Child CAHPS Questions Renamed to be
*             consistent with the 2003 Q3 Child DOD Survey.
*
* NOTES:
*
* 1) This program will generate the input for BENCHC02.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  V612  "..\..\..\2004AdultChildNCBD\CC";
LIBNAME OUT V612  "dataCHILD";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC01;
  SET IN.CC2004DB;
  FORMAT _ALL_;
  C05009 = CC07_04;
  C05007 = CC05_04;
  C05019 = CC13_04;
  C05021 = CC15_04;
  C05024 = CC18_04;
  C05028 = CC23_04;
  C05026 = CC20_04;
  C05032 = CC28_04;
  C05034 = CC30_04;
  C05035 = CC31_04;
  C05036 = CC32_04;
  C05037 = CC33_04;
  C05038 = CC34_04;
  C05039 = CC35_04;
  C05040 = CC36_04;
  C05042 = CC38_04;
  C05043 = CC39_04;
  C05050 = CC49_04;
  C05066 = CC69_04;
  C05068 = CC71_04;
  C05070 = CC77_04;
  C05071 = CC78_04;
  AGEGROUP = CC92_04; * Parents Age Grouping;
  ZAGE      = CC88_04; * Childs Age;
  XSEX      = CC89_04; * Childs Sex;
  SREDHIGH  = CC94_04; * Parents Education Level;
  C05075    = CC82_04; * Childs Health Status;
  if product in (7,9) then model=4;          /*MJS 05/06/03 product now numeric*/
  if product=3 then model=2;                  /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;

```

```

if product=4 then model=6;
if product=8 then model=5;
if product=2 then model=3;

IF ZAGE NE . AND ZAGE < 18; /* 01/31/2006 - RSG - LIMIT AGE GROUP TO CHILD ONLY*/

LABEL C05009 = "CC07_04 - CAHPS variable"
      C05007 = "CC05_04 - CAHPS variable"
      C05019 = "CC13_04 - CAHPS variable"
      C05021 = "CC15_04 - CAHPS variable"
      C05024 = "CC18_04 - CAHPS variable"
      C05028 = "CC23_04 - CAHPS variable"
      C05026 = "CC20_04 - CAHPS variable"
      C05032 = "CC28_04 - CAHPS variable"
      C05034 = "CC30_04 - CAHPS variable"
      C05035 = "CC31_04 - CAHPS variable"
      C05036 = "CC32_04 - CAHPS variable"
      C05037 = "CC33_04 - CAHPS variable"
      C05038 = "CC34_04 - CAHPS variable"
      C05039 = "CC35_04 - CAHPS variable"
      C05040 = "CC36_04 - CAHPS variable"
      C05042 = "CC38_04 - CAHPS variable"
      C05043 = "CC39_04 - CAHPS variable"
      C05050 = "CC49_04 - CAHPS variable"
      C05066 = "CC69_04 - CAHPS variable"
      C05068 = "CC71_04 - CAHPS variable"
      C05070 = "CC77_04 - CAHPS variable"
      C05071 = "CC78_04 - CAHPS variable"
      AGEGROUP = "CC92_04 - CAHPS variable" /* Parents Age Grouping */
      ZAGE = "CC88_04 - CAHPS variable" /* Childs Age */
      XSEX = "CC89_04 - CAHPS variable" /* Childs Sex */
      SREDHIGH = "CC94_04 - CAHPS variable" /* Parents Education Level */
      C05075 = "CC82_04 - CAHPS variable" /* Childs Health Status */
;
KEEP C05009
      C05007
      C05019
      C05021
      C05024
      C05028
      C05026
      C05032
      C05034
      C05035
      C05036
      C05037
      C05038
      C05039
      C05040
      C05042
      C05043
      C05050
      C05066
      C05068
      C05070
      C05071
      AGEGROUP
      ZAGE
      XSEX
      SREDHIGH
      C05075
      PLANID
      MODEL
      DISP
;
RUN;

DATA OUT.BENCHC01 (DROP=PLANID);
  SET OUT.BENCHC01;
  LENGTH PRODUCT 8;
  PRODUCT = PLANID;
RUN;

TITLE1 "Extract 2005 Child CAHPS Questions (6077-410)";

```

```
TITLE2 "Program Name: BENCHC01.SAS By Keith Rathbun";
TITLE3 "Program Input: CHILD.SD2";
TITLE4 "Program Output: BENCHC01.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

G.8 BENCHMARK\BENCHC02.SAS - RECODE CHILD CAHPS QUESTIONS FROM NCBD TO BE CONSISTENT WITH THE HCSDB.

```
*****
*
* PROGRAM:  BENCHC02.SAS
* TASK:    2004 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE:  Recode 2001 Child CAHPS Questions
*
* WRITTEN:  07/17/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*             accommodate the 2000 Q3 Child DOD Survey.
*            2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*            3) 11/29/2001 BY KEITH RATHBUN, Removed reverse ordering
*               of C00033.
*            4) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*               accommodate the 2002 Q3 Child DOD Survey.
*            5) 12/05/2003 BY MIKE SCOTT, Updated variable names for Q3 2004
*               Child survey. Added code for C03073 and C03074. Added V612
*               to libnames.
*            6) 01/09/2006 BY REGINA GRAMSS, Updated for 2004 - use 2004
*               benchmark data. Also changed format/layout to mimic adult
*               benchmark.
*            7) 01/11/2006 BY REGINA GRAMSS, Updated for 2005.
*
* INPUT:    1) BENCHC01.SD2 - 2004 Child CAHPS Questions Renamed to be
*               consistent with the 2003 Q3 Child DOD Survey.
*
* OUTPUT:   1) BENCHC02.SD2 - Recoded 2004 Child CAHPS Questions Renamed
*               to be consistent with the 2004 Q3 Child DOD Survey.
*
* NOTES:
*
* 1) Run this program after BENCHC01.SAS.
* 2) This program will generate the input for BENCHC04.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  V612  "dataCHILD";
LIBNAME OUT V612  "dataCHILD";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC02;
  SET IN.BENCHC01;

*****
* Recode variables with Never, Sometimes, Usually and Always.
* Recode Never & Sometimes (1 & 2) to 1.
* Recode Usually (3) to 2.
* Recode Always (4) to 3.
*****;

IF C05024 = 1      THEN R05024 = 1;
ELSE IF C05024 = 2 THEN R05024 = 1;
ELSE IF C05024 = 3 THEN R05024 = 2;
ELSE IF C05024 = 4 THEN R05024 = 3;
ELSE IF C05024 < 0 THEN R05024 = .;

IF C05028 = 1      THEN R05028 = 1;
ELSE IF C05028 = 2 THEN R05028 = 1;
ELSE IF C05028 = 3 THEN R05028 = 2;
ELSE IF C05028 = 4 THEN R05028 = 3;
ELSE IF C05028 < 0 THEN R05028 = .;

IF C05026 = 1      THEN R05026 = 1;
ELSE IF C05026 = 2 THEN R05026 = 1;
ELSE IF C05026 = 3 THEN R05026 = 2;
ELSE IF C05026 = 4 THEN R05026 = 3;
ELSE IF C05026 < 0 THEN R05026 = .;

IF C05035 = 1      THEN R05035 = 1;
```

```

ELSE IF C05035 = 2 THEN R05035 = 1;
ELSE IF C05035 = 3 THEN R05035 = 2;
ELSE IF C05035 = 4 THEN R05035 = 3;
ELSE IF C05035 < 0 THEN R05035 = .;

IF C05038 = 1 THEN R05038 = 1;
ELSE IF C05038 = 2 THEN R05038 = 1;
ELSE IF C05038 = 3 THEN R05038 = 2;
ELSE IF C05038 = 4 THEN R05038 = 3;
ELSE IF C05038 < 0 THEN R05038 = .;

IF C05039 = 1 THEN R05039 = 1;
ELSE IF C05039 = 2 THEN R05039 = 1;
ELSE IF C05039 = 3 THEN R05039 = 2;
ELSE IF C05039 = 4 THEN R05039 = 3;
ELSE IF C05039 < 0 THEN R05039 = .;

IF C05040 = 1 THEN R05040 = 1;
ELSE IF C05040 = 2 THEN R05040 = 1;
ELSE IF C05040 = 3 THEN R05040 = 2;
ELSE IF C05040 = 4 THEN R05040 = 3;
ELSE IF C05040 < 0 THEN R05040 = .;

IF C05042 = 1 THEN R05042 = 1;
ELSE IF C05042 = 2 THEN R05042 = 1;
ELSE IF C05042 = 3 THEN R05042 = 2;
ELSE IF C05042 = 4 THEN R05042 = 3;
ELSE IF C05042 < 0 THEN R05042 = .;

IF C05043 = 1 THEN R05043 = 1;
ELSE IF C05043 = 2 THEN R05043 = 1;
ELSE IF C05043 = 3 THEN R05043 = 2;
ELSE IF C05043 = 4 THEN R05043 = 3;
ELSE IF C05043 < 0 THEN R05043 = .;

IF C05036 = 1 THEN R05036 = 1;
ELSE IF C05036 = 2 THEN R05036 = 1;
ELSE IF C05036 = 3 THEN R05036 = 2;
ELSE IF C05036 = 4 THEN R05036 = 3;
ELSE IF C05036 < 0 THEN R05036 = .;

IF C05037 = 1 THEN R05037 = 1;
ELSE IF C05037 = 2 THEN R05037 = 1;
ELSE IF C05037 = 3 THEN R05037 = 2;
ELSE IF C05037 = 4 THEN R05037 = 3;
ELSE IF C05037 < 0 THEN R05037 = .;

IF C05075 = 1 THEN R05075 = 5;
ELSE IF C05075 = 2 THEN R05075 = 4;
ELSE IF C05075 = 3 THEN R05075 = 3;
ELSE IF C05075 = 4 THEN R05075 = 2;
ELSE IF C05075 = 5 THEN R05075 = 1;
ELSE IF C05075 > 5 | C05075 < 1 THEN R05075 = .;

*****
* Recode variables to one missing condition "."
* This also renames all the "C05xxx" to 'R05xxx'.
*****;
R05009 = C05009; IF R05009 < 0 THEN R05009 = .;
R05019 = C05019; IF R05019 < 0 THEN R05019 = .;
R05032 = C05032; IF R05032 < 0 THEN R05032 = .;
R05034 = C05034; IF R05034 < 0 THEN R05034 = .;
R05066 = C05066; IF R05066 < 0 THEN R05066 = .;
R05068 = C05068; IF R05068 < 0 THEN R05068 = .;
R05070 = C05070; IF R05070 < 0 THEN R05070 = .;
R05050 = C05050; IF R05050 < 0 THEN R05050 = .;
R05071 = C05071; IF R05071 < 0 THEN R05071 = .;
R05007 = C05007; IF R05007 < 0 THEN R05007 = .;
R05021 = C05021; IF R05021 < 0 THEN R05021 = .;

LABEL R05009 = "CC07_04 - Recoded CAHPS variable"
      R05007 = "CC05_04 - Recoded CAHPS variable"
      R05019 = "CC13_04 - Recoded CAHPS variable"

```

```

R05021 = "CC15_04 - Recoded CAHPS variable"
R05024 = "CC18_04 - Recoded CAHPS variable"
R05028 = "CC23_04 - Recoded CAHPS variable"
R05026 = "CC20_04 - Recoded CAHPS variable"
R05032 = "CC28_04 - Recoded CAHPS variable"
R05034 = "CC30_04 - Recoded CAHPS variable"
R05035 = "CC31_04 - Recoded CAHPS variable"
R05036 = "CC32_04 - Recoded CAHPS variable"
R05037 = "CC33_04 - Recoded CAHPS variable"
R05038 = "CC34_04 - Recoded CAHPS variable"
R05039 = "CC35_04 - Recoded CAHPS variable"
R05040 = "CC36_04 - Recoded CAHPS variable"
R05042 = "CC38_04 - Recoded CAHPS variable"
R05043 = "CC39_04 - Recoded CAHPS variable"
R05050 = "CC49_04 - Recoded CAHPS variable"
R05066 = "CC69_04 - Recoded CAHPS variable"
R05068 = "CC71_04 - Recoded CAHPS variable"
R05070 = "CC77_04 - Recoded CAHPS variable"
R05071 = "CC78_04 - Recoded CAHPS variable"
R05075 = "CC82_04 - Recoded CAHPS variable"
PRODUCT = "Product ID - CAHPS variable";
;
RUN;

TITLE1 "Recode 2004 Child CAHPS Questions (6077-410)";
TITLE2 "Program Name: BENCHC02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHC01.SD2";
TITLE4 "Program Output: BENCHC02.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES AGEGROUP
       ZAGE
       XSEX
       SREDHIGH
       C05009 * R05009
       C05007 * R05007
       C05019 * R05019
       C05021 * R05021
       C05024 * R05024
       C05028 * R05028
       C05026 * R05026
       C05032 * R05032
       C05034 * R05034
       C05035 * R05035
       C05036 * R05036
       C05037 * R05037
       C05038 * R05038
       C05039 * R05039
       C05040 * R05040
       C05042 * R05042
       C05043 * R05043
       C05050 * R05050
       C05066 * R05066
       C05068 * R05068
       C05070 * R05070
       C05071 * R05071
       C05075 * R05075
       /MISSING LIST;
RUN;

```

G.9 BENCHMARK\BENCHC03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB.

```
*****
*
* PROGRAM:  BENCHC03.SAS
* TASK:     2004 DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE:  Adjust 2003 Adult CAHPS Benchmarks
*
* WRITTEN:  June 2000 BY ERIC SCHONE
*
* INPUTS:   1) BENCHC02.SD2 - 2000 Adult CAHPS Questions Renamed to be
*             consistent with the 2000 MPR DOD Survey.
*           2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
*
* OUTPUTS:  1) Benchmark Composite Scores Data Sets
*
* MODIFIED: 1) Jan 2006 BY REGINA GRAMSS - Modified adult BENCHC03.SAS for child
*             Benchmark program with applicable field names and composites.
*
* NOTES:
*
* 1) Run this program after BENCHC01.SAS and BENCHC02.SAS.
* 2) This program will generate the input for BENCHC04.SAS.
*
*****
* Assign data libraries and options
*****;
libname in  v612 'dataCHILD';
libname in2 v612 '..\ReportCards\CAHPS_ChildQ32005\Data';
libname out v612 'dataCHILD';

*libname in  v612 'M:\Q3_2005\Programs\Benchmark\DataChild';
*libname in2 v612 'M:\Q3_2005\Programs\ReportCards\CAHPS_ChildQ32005\Data';
*libname out v612 'M:\Q3_2005\Programs\Benchmark\DataChild';

%let wgt=wrwt;

OPTIONS MLOGIC MPRINT NOCENTER LS=132 PS=79;

%macro comb(f,t,q,l);

proc summary data=&f;
  var &t;
  where &q~=. ;
  weight &wgt;
  output out=temp mean=&t;
run;

data temp;
  set temp;
  array old &t;
  call symput('z',left(dim(old)));
run;

data temp(drop=_type_ &t);
  set temp;
  array old &t;
  array new var1-var&z;
  do i=1 to &z;
    new(i)=old(i);
  end;
run;

data &q._&l;
  merge temp c_&q;
  array coeffs &t;
  array means var1-var&z;
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
END;
```

```

    ADJUST = ADJUST + intercept;
    &q._&l=adjust;

run;

%mend comb;

%macro adjust(x,y);

proc summary data=setup2;
where &x>.;
class product;

output out=count;
run;

data count count2(rename=(_freq_=denom));
set count;
if _type_=0 then output count2;
else output count;
run;

data count(keep=pweight product);
if _n_=1 then set count2;
set count;
pweight=denom/_freq_;
run;

data temp;
merge count setup2; by product;

run;
proc summary data=temp;
where &x>.;
weight pweight;
var &y;
output out=temp2 mean=&y;
data temp2;
set temp2;
array old &y;
call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
set temp2;
array old &y;
array new var1-var&z;
do i=1 to &z;
new(i)=old(i);
end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
array old &y;
array new var1-var&z;
do i=1 to &z;
if old(i)=. then
old(i)=new(i);
end;
run;
proc reg data=temp outest=c_&x noprint;
model &x=&y;
weight pweight;
output out=r_&x r=r_&x;
run;

proc sort data=r_&x; by product;
run;

PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
WEIGHT pweight;

```

```

SETENV DECWIDTH=4;
NEST product / missunit;
VAR R_&x;
OUTPUT SEMEAN / TABLECELL=DEFAULT REPLACE
FILENAME=s_&x;
RUN;

```

```

data s_&x(rename=(semean=s_&x));
set s_&x(keep=semean);
%do i=1 %to 8;
  %if &i=8 %then %do;

    data group8;
      set in2.group5 in2.group6 in2.group7;
    run;
    %comb(group8,&y,&x,8);
  %end;
  %else %do;
    %comb(in2.group&i,&y,&x,&i);
  %end;
%end;

```

```

%mend adjust;

```

```

/* adjust all the variables */

```

```

%macro comp(compno,a,b,c,d,e);
  %if &a~= %then %do;
    %let n=r_&a;
    %let m=s_&a;
    %do i=1 %to 8;
      %let p&i=&a._&i;
    %end;
    %let grpnum=1;
    proc sort data=r_&a;
      by mpid;
    run;
  %end;
  %if &b~= %then %do;
    %let n=%str(&n r_&b);
    %let m=%str(&m s_&b);
    %do i=1 %to 8;
      %let p&i=%str(&p&i &b._&i);
    %end;
    %let grpnum=2;
    proc sort data=r_&b;
      by mpid;
    run;
  %end;
  %if &c~= %then %do;
    proc sort data=r_&c;
      by mpid;
    run;
    %let grpnum=3;
    %let n=%str(&n r_&c);
    %do i=1 %to 8;
      %let p&i=%str(&p&i &c._&i);
    %end;
    %let m=%str(&m s_&c); %end;

  %if &d~= %then %do;
    proc sort data=r_&d;
      by mpid;
    run;
    %let grpnum=4;
    %let n=%str(&n r_&d);
    %do i=1 %to 8;
      %let p&i=%str(&p&i &d._&i);
    %end;

    %let m=%str(&m s_&d);
  %end;

```

```

%if &e~= %then %do;
  proc sort data=r_&e;
    by mpid;
  run;
  %let grpnum=5;
  %let n=%str(&n r_&e);
  %do i=1 %to 8;
    %let p&i=%str(&p&i &e._&i);
  %end;

  %let m=%str(&m s_&e);
%end;

data infile;
merge &n;
by mpid;
run;

proc corr outp=outf noprint;
var &n;
weight pweight;
run;

data final;
if _n_=1 then do;
  %if &a~= %then %do;
    set s_&a;
  %end;
  %if &b~= %then %do;
    set s_&b;
  %end;
  %if &c~= %then %do;
    set s_&c;
  %end;
  %if &d~= %then %do;
    set s_&d;
  %end;
  %if &e~= %then %do;
    set s_&e;
  %end;
end;
set outf;
call symput('s' || compress(_n_), substr(_name_, 3));
where _type_='CORR';
run;

data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
    if _name_="r_&s&i" then
      sde=sde+r_val(i)*s_&s&i*s_val(i);
  %end;
end;
run;

data sefin&compno;
set final end=last;
tv+sde;
if last then do;
  sde=(tv*.5)/&grpnum;
  output;
end;

%do i=1 %to 8;
  data temp(keep=&p&i);
  merge &p&i;
run;

data output;
set &p&i;

```

```

totadj+adjust;
run;

data output(keep=totadj);
set output end=last;
if last then do;
totadj=totadj/&grpnum;
output;
end;
run;

data out&compno._&i;
merge output temp;
run;

data out.comp&compno._&i;
merge out&compno._&i
sefin&compno;
run;

%end;

%mend comp;

/* create composites */
proc sort data=in.benchc02 out=setup;
by product;
run;
data setup;
set setup;
if ^(model in (2,4));
if disp in ('M10','T10'); ***MJS 05/06/03 Changed _01 to _02;
run;
data setup2;
set setup; by product;
mpid=_n_;

IF (ZAGE NE . AND ZAGE NE 255) THEN DO;
AGEUND6 = 0;
AGE0612 = 0;
AGE1317 = 0;

IF (ZAGE < 6) THEN AGEUND6 = 1;
ELSE IF (6 <= ZAGE <= 12) THEN AGE0612 = 1;
ELSE IF (13 <= ZAGE <= 17) THEN AGE1317 = 1;
END;

if agegroup ne . then do;
ageund18=0; age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

if agegroup=0 then ageund18 = 1;
else if agegroup=1 then age1824 = 1;
else if agegroup=2 then age2534 = 1;
else if agegroup=3 then age3544 = 1;
else if agegroup=4 then age4554 = 1;
else if agegroup=5 then age5564 = 1;
else if agegroup=6 then age6574 = 1;
end;

run;
%INCLUDE "..\ReportCards\CAHPS_ChildQ32005\CONVERT.SAS";
**INCLUDE "M:\Q3_2005\Programs\ReportCards\CAHPS_ChildQ32005\CONVERT.SAS";

%CONT1(DSN=SETUP2, NUM=7, Y=R05009 R05019 R05032 R05034
R05066 R05068 R05070);

%CONT2(DSN=SETUP2, NUM=4, Y=R05050 R05071 R05007 R05021);

%CONT3(DSN=SETUP2, NUM=11, Y=R05024 R05028 R05026 R05035
R05038 R05039 R05040 R05042
R05043 R05036 R05037);

/* GETTING NEEDED CARE */
%ADJUST(R05009,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05019,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);

```

```

%ADJUST(R05032,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05034,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(1,R05009,R05019,R05032,R05034);

/* GETTING NEEDED CARE QUICKLY */
%ADJUST(R05024,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05028,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05026,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05035,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(2,R05024,R05028,R05026,R05035);

/* HOW WELL DOCTORS COMMUNICATE */
%ADJUST(R05038,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05039,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05040,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05042,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05043,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(3,R05038,R05039,R05040,R05042,R05043);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%ADJUST(R05036,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05037,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(4,R05036,R05037);

/* CUSTOMER SERVICE */
%ADJUST(R05066,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05068,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%ADJUST(R05070,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(5,R05066,R05068,R05070);

/* RATING ALL HEALTH CARE: 0 - 10 */
%ADJUST(R05050,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(6,R05050);

/* RATING OF HEALTH PLAN: 0 - 10 */
%ADJUST(R05071,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(7,R05071);

/* RATING OF PERSONAL DR: 0 - 10 */
%ADJUST(R05007,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(8,R05007);

/* RATING OF SPECIALTY CARE: 0 - 10 */
%ADJUST(R05021,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R05075);
%COMP(9,R05021);

```

G.10 BENCHMARK\BENCHC04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT.

```

*****
*
* PROGRAM:  BENCHC04.SAS
* TASK:     Quarterly DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE:  Convert the Benchmark Scores Database into the WEB layout
*
* WRITTEN:  06/01/2000 BY KEITH RATHBUN
*
* INPUTS:   1) Benchmark data sets with adjusted scores
*            (COMPn_i.SD2 where n = composite number and i = group number)
*
* OUTPUT:   1) BENCHC04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*            and composite data sets
*
* MODIFIED: 1) Jan 2006 - Regina Gramss: Modified Adult BENCHC04.SAS program
*            for child benchmark, including changing field names and
*            composites.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - BENCHC01.SAS - Extract Benchmark variables
*    - BENCHC02.SAS - Recode Benchmark variables
*    - BENCHC03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHC04.SD2) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  V612 "DATACHILD";
LIBNAME OUT V612 "DATACHILD";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

*LIBNAME IN  V612 "M:\Q3_2003\Programs\Benchmark\NewBenchmark\DATA";
*LIBNAME OUT V612 "M:\Q3_2003\Programs\Benchmark\NewBenchmark\DATA";

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADWEB\LOADCAHC.INC";
*%INCLUDE "M:\Q3_2003\Programs\Create New Conus_C\LOADCAHC.INC";

*****
*****
* Process Macro Input Parameters:
*
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE   = List of individual standard error variables
*
*


| Adjusted Score<br>Group Number | Definitions               |
|--------------------------------|---------------------------|
| 1. Prime enrollees             | XINS_COV = 1 AND C03003=4 |
| 2. Enrollees w/mil PCM         | XENR_PCM = 1 AND C03003=4 |
| 3. Enrollees w/civ PCM         | XENR_PCM = 2 AND C03003=4 |
| 4. Nonenrollees                | XINS_COV IN (2,3)         |
| 5. Under Age 6                 | AGEUND6 = 1               |
| 6. 6-12 Years                  | AGE0612 = 1               |
| 7. 13-17 Years                 | AGE1317 = 1               |
| 8. All beneficiaries           | All beneficiaries         |


*
*****;

```

```

%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
*****
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2005"; /*MJS 10/21/03*/

*****
* Convert benchmark scores datasets into WEB layout.
*****;

DATA COMP&CNUM._&Gnum;
  SET IN.COMP&CNUM._&GNUM;

  LENGTH MAJGRP $30;
  LENGTH REGION $15;
  LENGTH REGCAT $26;
  LENGTH BENTYPE $50;
  LENGTH BENEFIT $34;
  LENGTH TIMEPD $35; ***MJS 07/03/03 Added line;

  *****
  * For now, assign SIG = 0
  *****;
  SIG = 0;

  *****
  * Assign major group
  *****;
  MAJGRP = PUT(&Gnum,ROWCATF.);

  *****
  * Assign Region and Regcat
  *****;
  REGION = "Benchmark";
  REGCAT = "Benchmark";

  *****
  * Assign benefit and benefit type
  *****;
  IF &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
  ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
  ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
  ELSE IF &CNUM = 4 THEN BENEFIT = "Courteous and Helpful Office Staff";
  ELSE IF &CNUM = 5 THEN BENEFIT = "Customer Service";
  ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
  ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";
  ELSE IF &CNUM = 8 THEN BENEFIT = "Personal Doctor or Nurse";
  ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";

  BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.); ***MJS 07/03/03 Added;

  *****
  * Assign composite score and SEMEAN
  *****;
  SCORE = TOTADJ;
  SEMEAN = SDE;

  *****
  * Output composite score record for each REGION
  *****;
  OUTPUT;

  *****
  * Now, output the individual score records
  *****;
  IF &NVAR GT 1 THEN DO;
    ARRAY ITEMS &VARS;
    ARRAY SE &SE;
    LENGTH NAME $8;
    DO I = 1 TO DIM(ITEMS); DROP I;
      CALL VNAME(ITEMS(I),NAME);
      NAME = SUBSTR(NAME,1,6);
      SCORE = ITEMS(I);
    END;
  END;

```

```

        SEMEAN = SE(I);
        BENTYPE = PUT(NAME,$BENTYPF.);
        TIMEPD = PUT(&YEAR,$BENTYPF.);    ***MJS 07/03/03 Added;
        OUTPUT;
    END;
END;

KEEP MAJGRP
    REGION
    REGCAT
    BENTYPE
    BENEFIT
    TIMEPD    /*MJS 07/03/03 Added*/
    SEMEAN
    SCORE
    SIG
;
RUN;

%MEND;

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=1, NVAR=4, VARS=R05009_1 R05019_1 R05032_1 R05034_1,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=1, NVAR=4, VARS=R05024_1 R05028_1 R05026_1 R05035_1,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=1, NVAR=5, VARS=R05038_1 R05039_1 R05040_1 R05042_1 R05043_1,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=1, NVAR=2, VARS=R05036_1 R05037_1, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=1, NVAR=3, VARS=R05066_1 R05068_1 R05070_1,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=1, NVAR=1, VARS=R05050_1, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=1, NVAR=1, VARS=R05071_1, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=1, NVAR=1, VARS=R05007_1, SE=S_R05007);

```

```

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=1, NVAR=1, VARS=R05021_1, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=2, NVAR=4, VARS=R05009_2 R05019_2 R05032_2 R05034_2,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=2, NVAR=4, VARS=R05024_2 R05028_2 R05026_2 R05035_2,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=2, NVAR=5, VARS=R05038_2 R05039_2 R05040_2 R05042_2 R05043_2,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=2, NVAR=2, VARS=R05036_2 R05037_2, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=2, NVAR=3, VARS=R05066_2 R05068_2 R05070_2,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=2, NVAR=1, VARS=R05050_2, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=2, NVAR=1, VARS=R05071_2, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=2, NVAR=1, VARS=R05007_2, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=2, NVAR=1, VARS=R05021_2, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=3, NVAR=4, VARS=R05009_3 R05019_3 R05032_3 R05034_3,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****

```

```

* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=3, NVAR=4, VARS=R05024_3 R05028_3 R05026_3 R05035_3,
          SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=3, NVAR=5, VARS=R05038_3 R05039_3 R05040_3 R05042_3 R05043_3,
          SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=3, NVAR=2, VARS=R05036_3 R05037_3, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=3, NVAR=3, VARS=R05066_3 R05068_3 R05070_3,
          SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=3, NVAR=1, VARS=R05050_3, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=3, NVAR=1, VARS=R05071_3, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=3, NVAR=1, VARS=R05007_3, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=3, NVAR=1, VARS=R05021_3, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=4, NVAR=4, VARS=R05009_4 R05019_4 R05032_4 R05034_4,
          SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=4, NVAR=4, VARS=R05024_4 R05028_4 R05026_4 R05035_4,
          SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=4, NVAR=5, VARS=R05038_4 R05039_4 R05040_4 R05042_4 R05043_4,
          SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.

```

```

* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=4, NVAR=2, VARS=R05036_4 R05037_4, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=4, NVAR=3, VARS=R05066_4 R05068_4 R05070_4,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=4, NVAR=1, VARS=R05050_4, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=4, NVAR=1, VARS=R05071_4, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=4, NVAR=1, VARS=R05007_4, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=4, NVAR=1, VARS=R05021_4, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=5, NVAR=4, VARS=R05009_5 R05019_5 R05032_5 R05034_5,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=5, NVAR=4, VARS=R05024_5 R05028_5 R05026_5 R05035_5,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=5, NVAR=5, VARS=R05038_5 R05039_5 R05040_5 R05042_5 R05043_5,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=5, NVAR=2, VARS=R05036_5 R05037_5, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=5, NVAR=3, VARS=R05066_5 R05068_5 R05070_5,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;

```

```

%PROCESS(CNUM=6, GNUM=5, NVAR=1, VARS=R05050_5, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=5, NVAR=1, VARS=R05071_5, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=5, NVAR=1, VARS=R05007_5, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=5, NVAR=1, VARS=R05021_5, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=6, NVAR=4, VARS=R05009_6 R05019_6 R05032_6 R05034_6,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=6, NVAR=4, VARS=R05024_6 R05028_6 R05026_6 R05035_6,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=6, NVAR=5, VARS=R05038_6 R05039_6 R05040_6 R05042_6 R05043_6,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=6, NVAR=2, VARS=R05036_6 R05037_6, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=6, NVAR=3, VARS=R05066_6 R05068_6 R05070_6,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=6, NVAR=1, VARS=R05050_6, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=6, NVAR=1, VARS=R05071_6, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=6, NVAR=1, VARS=R05007_6, SE=S_R05007);

*****

```

```

* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=6, NVAR=1, VARS=R05021_6, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=7, NVAR=4, VARS=R05009_7 R05019_7 R05032_7 R05034_7,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=7, NVAR=4, VARS=R05024_7 R05028_7 R05026_7 R05035_7,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=7, NVAR=5, VARS=R05038_7 R05039_7 R05040_7 R05042_7 R05043_7,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=7, NVAR=2, VARS=R05036_7 R05037_7, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=7, NVAR=3, VARS=R05066_7 R05068_7 R05070_7,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=7, NVAR=1, VARS=R05050_7, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=7, NVAR=1, VARS=R05071_7, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=7, NVAR=1, VARS=R05007_7, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=7, NVAR=1, VARS=R05021_7, SE=S_R05021);

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=8, NVAR=4, VARS=R05009_8 R05019_8 R05032_8 R05034_8,
        SE=S_R05009 S_R05019 S_R05032 S_R05034);

*****
* COMPOSITE # 2.

```

```

* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=8, NVAR=4, VARS=R05024_8 R05028_8 R05026_8 R05035_8,
        SE=S_R05024 S_R05028 S_R05026 S_R05035);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=8, NVAR=5, VARS=R05038_8 R05039_8 R05040_8 R05042_8 R05043_8,
        SE=S_R05038 S_R05039 S_R05040 S_R05042 S_R05043);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=8, NVAR=2, VARS=R05036_8 R05037_8, SE=S_R05036 S_R05037);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=8, NVAR=3, VARS=R05066_8 R05068_8 R05070_8,
        SE=S_R05066 S_R05068 S_R05070);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=8, NVAR=1, VARS=R05050_8, SE=S_R05050);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=8, NVAR=1, VARS=R05071_8, SE=S_R05071);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=8, NVAR=1, VARS=R05007_8, SE=S_R05007);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=8, NVAR=1, VARS=R05021_8, SE=S_R05021);

*****
* STACK up all of the files into one final output dataset.
*****;
DATA OUT.BENCHC04;
    SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
        COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8
        COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8
        COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
        COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8
        COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
        COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
        COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8
        COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
    ;
    IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2003 DOD Health Survey Scores/Report Cards (6077-410)";
TITLE2 "Program Name: BENCHC04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHC04.SD2 - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

```

```
PROC FREQ;  
TABLES BENEFIT BENTYPE MAJGRP REGCAT  
      /MISSING LIST;  
RUN;
```

G.11 LOADWEB\FAKEC_NEW.SAS - GENERATE THE WEB LAYOUT/TEMPLATE FILE.

```

*****
*
* PROJECT: 8860 - 2005 Annual Child Survey
* PROGRAM: FAKEC.SAS
* PURPOSE: Generate Fake Data for Report Cards
* AUTHOR: Natalie Justh
*
* MODIFIED: 1) 10/5/2001 By Keith Rathbun to accommodate 2000 version
*            of the child report card layout file. Added YEAR
*            parameter for ease of maintenance. Deleted Attitudes
*            Toward TRICARE Prime and added Speciality Care and
*            Claims Processing. Removed unnecessary code used to
*            assign SCORE and SIG values.
*
*            2) 10/18/2001 By Chris Rankin to change the order that
*            the data appear in the report cards.
*
*            3) 11/1/2002 By Mike Scott and Keith Rathbun to
*            accommodate the 2002 version of the child report card
*            layout file.
*
*            4) 12/3/2003 By Mike Scott - Updated for Q3 2003.
*            5) 12/30/2005 By Regina Gramss - changed structure and updated
*            for 2004
*            6) 01/20/2006 By Regina Gramss - updated for 2005. Divided macro into
*            2 steps - one for creating Majgrps with Region=Benchmark, then
*            running all the Majgrp (including Benchmark) for the 3 Regions.
*****;

LIBNAME OUT V612 '.';
OPTIONS COMPRESS=YES MPRINT MLOGIC;

%INCLUDE "LOADCAHC.INC";
%INCLUDE "F:\Q3_2004\Programs\Loadweb\LOADCAHC.INC";

%LET NUMQTR = 3; ***MJS 06/18/03 Changed 4 to 5;

%LET PERIOD1 = 2004;
%LET PERIOD2 = 2005;
%LET PERIOD3 = Trend;

%LET YEAR = 2005;

%macro fake(CODE);
DATA FAKEC_&CODE.;

KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K;

LENGTH MAJGRP $ 30
        REGION $ 30 /*RSG 01/2005 lengthen format to fit service affiliation*/
        REGCAT $ 30
        BENTYPE $ 50
        TIMEPD $ 35;

%IF &CODE = 1 %THEN %DO;
DO I=2 TO 9; ** 8 Major groups **;

MAJGRP=PUT(I,ROWCAT2F.);

DO J=4 TO 4; ** Region=Benchmark **;

REGION=PUT(J,REGIONF.);
REGCAT=REGION;
%END;
%ELSE %IF &CODE = 2 %THEN %DO;
DO I=1 TO 9; ** 8 Major groups, Majgrp=Benchmark **;

MAJGRP=PUT(I,ROWCAT2F.);

DO J=0 TO 3; ** 3 Regions + Conus MHS **;

```

```

REGION=PUT(J,REGIONF.);
REGCAT=REGION;

%END;

DO K=1 TO 11;      ** 11 Benefits **;

BENEFIT=PUT(K,BEN.);

  IF K=1 THEN DO;
    DO L=1 TO 5;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,GETNCARE.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=2 THEN DO;
    DO L=1 TO 5;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,GETCAREQ.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=3 THEN DO;
    DO L=1 TO 6;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,HOWWELL.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=4 THEN DO;
    DO L=1 TO 3;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,CRTSHELP.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=5 THEN DO;
    DO L=1 TO 4;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,CUSTSERV.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=10 THEN DO;
    DO L=1 TO 5;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,INVRENT.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K=11 THEN DO;
    DO L=1 TO 4;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
      BENTYPE=PUT(L,SPECIAL.);  ***that replaced BENTYPE hard assignment;
      %DO Q = 1 %TO &NUMQTR;  ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
      %END;  ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
  END;
  ELSE IF K IN (6,7,8,9) THEN DO;
    %DO Q = 1 %TO &NUMQTR;

```

```

        TIMEPD = "&&PERIOD&Q";
        OUTPUT;
    %END;
END;
END;
END;
END;
SCORE = .;
SIG = .;
IF MAJGRP = "Benchmark" AND REGION = "Benchmark" THEN DELETE;
RUN;
%mend;

%fake(CODE=1);
%fake(CODE=2);

DATA OUT.FAKEC;
SET FAKEC_2 FAKEC_1;
RUN;

PROC FREQ;
    TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD ;
RUN;

```

G.12 LOADWEB\MERGFINC.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT.

```
*****
*
* PROGRAM:   MERGFINC.SAS
* TASK:      2005 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE:   Merge the final CAHPS and MPR Scores Databases
*            into the WEB layout preserving the order of the FAKEC.SD2.
*
* WRITTEN:   06/07/2000 BY KEITH RATHBUN
*
* INPUTS:    1) MPR and CAHPS Individual and Composite data sets with adjusted
*            scores, and benchmark data for 2003 DoD HCS.
*            - LOADMPRC.SD2 - MPR Scores Database
*            - LOADCAHC.SD2 - CAHPS Scores Database
*            - BENCHC04.SD2 - 2001 CAHPS Benchmark Database
*            - FAKEC.SD2   - WEB Layout in Column order
*
* OUTPUT:    1) MERGFINC.SD2 - Combined Scores Database in WEB layout
*
* MODIFIED:  1) 07/24/2000 By Keith Rathbun - Adapted from MERGFINC.SAS to
*            reflect the requirements of the Child Report Card.
*            2) 08/24/2001 By Keith Rathbun - Updated for Q3 2000 Child
*            Report Cards.
*            3) 10/31/2002 By Mike Scott and Keith Rathbun - Updated for
*            Q3 2002 Child Report Cards. Recoded BENTYPE, and deleted
*            recoding for ROWCAT.
*            4) 12/06/2003 By Mike Scott - Updated for Q3 2003.
*            5) 10/14/2005 By Regina Gramss - No longer merging in LOADMPR data.
*            6) 12/30/2005 By Regina Gramss - Need just scores so not merge in
*            benchmark data nor pre-existing composite scores.
*
* 1) The following steps need to be run prior to this program:
* - STEP1C.SAS - Recode questions and generate CAHPS group files
* - STEP2C.SAS - Calculate CAHPS individual adjusted scores for groups 1-8
* - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* - MPRCOMP.C.SAS - Calculate MPR individual and composite scores
* - LOADMPRC.SAS - Load MPR individual and composite scores into WEB layout
* - BENCHC01-04.SAS - Convert 1999 Benchmark Scores into WEB layout
* - LOADCAHC.SAS - Convert 2000 CAHPS Scores Database into WEB layout
*
* 2) The output file (MERGFINC.SD2) will be run through the
* MAKEHTMC.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN1 V612 ".";
LIBNAME IN2 V612 "CAHPS_ChildQ32005\DATA";
LIBNAME IN4 V612 "..\BENCHMARK\DATACHILD";
LIBNAME OUT V612 ".";

*LIBNAME IN1 V612 "L:\Q3_2005\Programs\Loadweb";
*LIBNAME IN2 V612 "L:\Q3_2005\Programs\Loadweb\CAHPS_ChildQ32005\DATA";
*LIBNAME IN4 V612 "L:\Q3_2005\Programs\BENCHMARK\DATACHILD";
*LIBNAME OUT V612 "L:\Q3_2005\Programs\Loadweb";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Construct ORDERing variable from WEB layout
*****;
DATA ORDER;
  SET IN1.FAKEC;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/09/03 Added TIMEPD;
  KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;
```

```

*****
* Merge the Scores Databases
*****;

%INCLUDE "LOADCAHC.INC";

DATA MERGFINC;
  SET IN2.LOADCAHC(IN=INCAHP04)
      IN4.BENCHC04(IN=INBEN01);
  SVCAHP04 = INCAHP04;
  SVBEN01 = INBEN01;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/09/03 Added TIMEPD;
  KEYLEN=LENGTH(KEY);
  KEYTEST=LENGTH(BENEFIT)+LENGTH(BENTYPE)+LENGTH(MAJGRP)+LENGTH(REGION)+LENGTH(TIMEPD);
  OUTPUT;

  IF INBEN01 THEN DO;
    IF MAJGRP = "CONUS MHS" THEN DO;
      DO REG = 0 TO 3; DROP REG;
      MAJGRP = "Benchmark";
      REGION = PUT(REG,REGIONF.);
      REGCAT = PUT(REG,REGIONF.);
      KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
            UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
            UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/09/03 Added TIMEPD;
      OUTPUT;
    END;
  END;
END;

  IF SCORE = . THEN DELETE;
RUN;

PROC SORT DATA=MERGFINC; BY KEY; RUN;

*****
* Append ORDERING variable to the merged Scores database file
*****;
DATA MERGFINC OUT.MISSING;
  MERGE MERGFINC(IN=IN1) ORDER(IN=IN2);
  BY KEY;

  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT";
  ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
  ELSE IF IN2 THEN FLAG = "IN LAYOUT ONLY";

  LENGTH SOURCE $30;
  IF SVCAHP04 = 1 THEN SOURCE = "CAHPS 2005 ";
  IF SVBEN01 = 1 THEN SOURCE = "BENCHMARK 2004";

  IF IN1 AND NOT IN2 THEN OUTPUT OUT.MISSING; *Missing from layout;
  IF IN1 THEN OUTPUT MERGFINC;
RUN;

*****
* Reorder file according to WEB layout
*****;
PROC SORT DATA=MERGFINC OUT=OUT.MERGFINC; BY ORDER; RUN;

DATA FAKEC;
  SET IN1.FAKEC;
  ORDER = _N_;
RUN;

DATA LAYONLY;
  MERGE FAKEC(IN=IN1) OUT.MERGFINC(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;

```

```

RUN;

TITLE1 "2005 DOD Health Survey Scores/Report Cards (6077-410)";
TITLE2 "Program Name: MERGFINC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINC.SD2 - Merged Final Scores Database for input to MAKEHTMC.SAS";

TITLE5 "MERGFINC.SD2 Data source counts";
PROC FREQ DATA=OUT.MERGFINC;
*TABLES SOURCE FLAG SVCAHP03 SVMPR03 SVBEN01 SVCMP02
          SVCAHP03*SVMPR03*SVBEN01*SVCMP02
/MISSING LIST;
TABLES SOURCE FLAG SVCAHP04 SVBEN01 /*SVCMP02 */
/MISSING LIST;
RUN;

TITLE5 "MERGFINC.SD2 Data attribute counts";
PROC FREQ DATA=OUT.MERGFINC;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
/MISSING LIST;
RUN;

TITLE5 "LAYONLY.SD2 Data attribute counts";
PROC FREQ DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
/MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";
PROC FREQ DATA=OUT.MISSING;
TABLES MAJGRP REGION BENTYPE BENEFIT
      MAJGRP*REGION*BENTYPE*BENEFIT
/MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";
PROC PRINT DATA=OUT.MISSING;
VAR MAJGRP REGION BENTYPE BENEFIT;
RUN;

```

G.13 LOADWEB\CONUS_C2.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS.

```
*****
*
* PROGRAM: CONUS_C.SAS
* TASK: Quarterly CHILD DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
*
* WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
* Merged SIGNIF_A.SAS funtionalty.
*
* MODIFIED: 1) 01/03/2006 - BY REGINA GRAMSS,
* ADAPTED ADULT CONUS_Q FOR CHILD REPORTS
*
* INPUTS: 1) MERGFINC.SD2 - Scores Database in WEB Layout
* 2) FAKEC.SD2 - Scores Database WEB Layout
* 3) CONUS_C.SD2 - Previous Quarters Combined CAHPS/MPR Scores Database in WEB layout
*
* OUTPUT: 1) TOTAL_C.SD2 - Combined CAHPS/MPR Scores Database in WEB layout
* 2) LT30C.SD2 - Records with <= 30 observations
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
* - STEP1C.SAS - Recode questions and generate group files
* - STEP2C.SAS - Calculate individual adjusted scores for group 1-7
* - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* - LOADCAHPC.SAS - Combine all questionnaire (CAHPS) scores together
* - MERGFINC.SAS - Merge the final CAHPS and MPR Scores Databases
*
*****
* Assign data libraries and options
*****;
*LIBNAME IN1 V612 ".";
*LIBNAME OUT V612 ".";

LIBNAME IN1 V612 ".";
LIBNAME OUT V612 ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

*****;
* Define GLOBAL parameters for last CONUSQ.SD2, rolling quarters, and
* input dataset name.
*
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
*****;
/*%LET LSTCONUS = ..\..\Q3_2004\Programs\Loadweb;*/
%LET LSTCONUS = ..\..\Q3_2004\Programs\Loadweb;

%LET PERIOD1 = 2004;
%LET PERIOD2 = 2005;
%LET DSN = MERGFINC;

*****;
* Set up empty template file for data merge purposes and set first time flag
*****;
DATA INIT;
SET IN1.&DSN;
DELETE;
RUN;
%LET FLAG = 0;
*****
*
* Process Macro Input Parameters:
*
* 1) BENTYPE = Benefit Type
* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
*
*****;
%MACRO PROCESS(BENTYPE=,MAJGRP=,BENEFIT=);
```

```

DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  WHERE BENTYPE = "&BENTYPE" AND
        BENEFIT = "&BENEFIT" AND
        MAJGRP = "&MAJGRP";

RUN;

*****;
* RSG 01/2005 Calc. Total CONUS Scores *;
*****;
DATA TEMP4;
  SET TEMP END=FINISHED;
  length key $200;
  IF _N_ = 1 THEN DO;
    SUMSCOR1 = 0;    RETAIN SUMSCOR1;
    SUMWGT1 = 0;    RETAIN SUMWGT1;
    SUMSE2 = 0;    RETAIN SUMSE2;
    SUMWGT2 = 0;    RETAIN SUMWGT2;
    N_OBS1 = 0;    RETAIN N_OBS1;
  END;
  *****
  * Note: For the Child Survey only CONUS were sent surveys
  *****;
  IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
  IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
  IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
  IF N_OBS NE . THEN N_OBS1 + N_OBS;
  IF FINISHED THEN GOTO FINISHED;
  RETURN;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
  FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 SUMWGT2 KEY;    ***MJS 07/08/03 Added TIMEPD;

FINISHED:
  IF SUMWGT1 NOTIN (.,0) THEN DO;
    SCORE = SUMSCOR1/SUMWGT1;
    SEMEAN = SQRT(SUMSE2)/SUMWGT1;
  END;
  ELSE DO;
    SCORE = .;
    SEMEAN = .;
  END;
  N_OBS = N_OBS1;
  N_WGT = SUMWGT1;
  SOURCE = "CONUS";
  FLAG = "CONUS";
  REGION = "CONUS MHS";
  REGCAT = REGION;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/08/03 Added TIMEPD;
  OUTPUT;
RUN;

%IF &FLAG = 0 %THEN %DO;
  DATA FINAL;
    SET INIT TEMP4;
  RUN;
%END;
%ELSE %DO;
  DATA FINAL;
    SET FINAL TEMP4;
  RUN;
%END;
%LET FLAG = 1;

%MEND;

*****
* Create CONUS for Children 13-17 Years
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);

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```

%PROCESS(BENTYPE=Make Easy To Discuss Questions ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Courteous and Respectful ,MAJGRP=Children 13-17 Years,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Children 13-17 Years,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Children 13-17 Years,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Children 13-17 Years,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Children 13-17 Years,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment ,MAJGRP=Children 13-17 Years,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy ,MAJGRP=Children 13-17 Years,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling ,MAJGRP=Children 13-17 Years,
BENEFIT=Special Needs);

```

* Create CONUS for Children 6-12 Years

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Make Easy To Discuss Questions ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Courteous and Respectful ,MAJGRP=Children 6-12 Years,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Children 6-12 Years,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Children 6-12 Years,
BENEFIT=Customer Service);

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```

%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Children 6-12 Years,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Children 6-12 Years,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment ,MAJGRP=Children 6-12 Years,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy ,MAJGRP=Children 6-12 Years,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling ,MAJGRP=Children 6-12 Years,
BENEFIT=Special Needs);

*****
* Create CONUS for Enrollees with Civilian PCM
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Make Easy To Discuss Questions ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Courteous and Respectful ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Getting Care Quickly);

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```
%PROCESS(BENTYPE=Questions Answered By Doctor ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling ,MAJGRP=Enrollees with Civilian PCM,
BENEFIT=Special Needs);
```

* Create CONUS for Enrollees with Military PCM - Individual

%PROCESS(BENTYPE=Advice over Telephone BENEFIT=Getting Care Quickly);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Make Easy To Discuss Questions BENEFIT=Involving Parents);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Get Information Needed From Doctor BENEFIT=Involving Parents);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Courteous and Respectful BENEFIT=Courteous and Helpful Office Staff);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval BENEFIT=Getting Needed Care);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Explains so you can Understand BENEFIT=How Well Doctors Communicate);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Explains so your child can Understand BENEFIT=How Well Doctors Communicate);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Helpful BENEFIT=Courteous and Helpful Office Staff);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Listens Carefully BENEFIT=How Well Doctors Communicate);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material, BENEFIT=Customer Service);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problem Getting Help from Customer Service BENEFIT=Customer Service);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problem with Paperwork BENEFIT=Customer Service);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting Necessary Care BENEFIT=Getting Needed Care);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse BENEFIT=Getting Needed Care);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting to See Specialist BENEFIT=Getting Needed Care);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Shows Respect BENEFIT=How Well Doctors Communicate);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Spends Time with your child BENEFIT=How Well Doctors Communicate);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Wait for Urgent Care BENEFIT=Getting Care Quickly);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Wait in Doctor's Office BENEFIT=Getting Care Quickly);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Wait for Routine Visit BENEFIT=Getting Care Quickly);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Questions Answered By Doctor BENEFIT=Involving Parents);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Doctor Involves Parent In Decision BENEFIT=Involving Parents);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment BENEFIT=Special Needs);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting Special Therapy BENEFIT=Special Needs);	,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling BENEFIT=Special Needs);	,MAJGRP=Enrollees with Military PCM,

* Create CONUS for Non-enrolled Beneficiaries - Individual

```

%PROCESS(BENTYPE=Courteous and Respectful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling
BENEFIT=Special Needs);

```

* Create CONUS for Prime Enrollees - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Make Easy To Discuss Questions
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Courteous and Respectful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care
BENEFIT=Getting Needed Care);

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```

%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect
Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child
Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling
BENEFIT=Special Needs);

```

* Create CONUS for Children Under Age 6 - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Make Easy To Discuss Questions
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Courteous and Respectful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Helpful
BENEFIT=Courteous and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork
BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist
BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Shows Respect
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child
BENEFIT=How Well Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit
BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision
BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment
BENEFIT=Special Needs);

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%PROCESS(BENTYPE=Problems Getting Special Therapy           ,MAJGRP=Children Under Age 6 ,
BENEFIT=Special Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling   ,MAJGRP=Children Under Age 6 ,
BENEFIT=Special Needs);

*****
* Create CONUS for All Beneficiaries - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone                       ,MAJGRP=CONUS MHS, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE=Make Easy To Discuss Questions             ,MAJGRP=CONUS MHS, BENEFIT=Involving
Parents);
%PROCESS(BENTYPE=Get Information Needed From Doctor          ,MAJGRP=CONUS MHS, BENEFIT=Involving
Parents);
%PROCESS(BENTYPE=Courteous and Respectful                    ,MAJGRP=CONUS MHS, BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval     ,MAJGRP=CONUS MHS, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE=Explains so you can Understand              ,MAJGRP=CONUS MHS, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand       ,MAJGRP=CONUS MHS, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE=Helpful                                     ,MAJGRP=CONUS MHS, BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE=Listens Carefully                            ,MAJGRP=CONUS MHS, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=CONUS MHS, BENEFIT=Customer
Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=CONUS MHS, BENEFIT=Customer
Service);
%PROCESS(BENTYPE=Problem with Paperwork                      ,MAJGRP=CONUS MHS, BENEFIT=Customer
Service);
%PROCESS(BENTYPE=Problems Getting Necessary Care             ,MAJGRP=CONUS MHS, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse     ,MAJGRP=CONUS MHS, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE=Problems Getting to See Specialist          ,MAJGRP=CONUS MHS, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE=Shows Respect                                ,MAJGRP=CONUS MHS, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE=Spends Time with your child                 ,MAJGRP=CONUS MHS, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE=Wait for Urgent Care                         ,MAJGRP=CONUS MHS, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE=Wait in Doctor's Office                     ,MAJGRP=CONUS MHS, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit                      ,MAJGRP=CONUS MHS, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE=Questions Answered By Doctor                ,MAJGRP=CONUS MHS, BENEFIT=Involving
Parents);
%PROCESS(BENTYPE=Doctor Involves Parent In Decision          ,MAJGRP=CONUS MHS, BENEFIT=Involving
Parents);
%PROCESS(BENTYPE=Problems Getting Special Medical Equipment ,MAJGRP=CONUS MHS, BENEFIT=Special
Needs);
%PROCESS(BENTYPE=Problems Getting Special Therapy           ,MAJGRP=CONUS MHS, BENEFIT=Special
Needs);
%PROCESS(BENTYPE=Problems Getting Treatment or Counseling    ,MAJGRP=CONUS MHS, BENEFIT=Special
Needs);

*****
* Process Quarterly CONUS Composites
*****
*****
* Create CONUS for Courteous and Helpful Office Staff
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years     ,BENEFIT=Courteous and Helpful
Office Staff); ***MJS 07/08/03 Changed BENTYPE="PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years      ,BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Courteous and Helpful
Office Staff);

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%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Courteous and Helpful
Office Staff);

*****
* Create CONUS for Customer Service
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Customer Service);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Customer Service);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Customer Service);

*****
* Create CONUS for Getting Care Quickly
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Getting Care Quickly);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Getting Care Quickly);

*****
* Create CONUS for Getting Needed Care
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Getting Needed Care);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Getting Needed Care);

*****
* Create CONUS for Health Care
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Health Care); ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Health Care);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Health Care);

*****
* Create CONUS for Health Plan
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Health Plan); ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Health Plan);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Health Plan);

```

```

*****
* Create CONUS for How Well Doctors Communicate
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=How Well Doctors
Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=How Well Doctors
Communicate);

*****
* Create CONUS for Special Needs
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Special Needs); ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Special Needs);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Special Needs);

*****
* Create CONUS for Specialty Care
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Specialty Care); ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Specialty Care);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Specialty Care);

*****
* Create CONUS for Involving Parents
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Involving Parents);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Involving Parents);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Involving Parents);

*****
* Create CONUS for Personal Doctor/Nurse
*****;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years ,BENEFIT=Personal Doctor or Nurse);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
%PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6 ,BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS ,BENEFIT=Personal Doctor or Nurse);

*****
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used

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* as place holders for missing records.  FAKEQ will be used for adding
* new records.
*****;
DATA FAKEC;
  SET IN1.FAKEC;
  length key $200;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));  ***MJS 07/08/03 Added TIMEPD;

RUN;
PROC SORT DATA=FAKEC OUT=TEMPC;          BY KEY; RUN;
PROC SORT DATA=FAKEC(KEEP=ORDER KEY); BY KEY; RUN;

*****
* Append BENCHMARK records to CAHPS records and perform significance tests
*****;
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE);
  SET IN1.&DSN;
  IF REGION = "Benchmark";
RUN;
Data abnchmrk(keep=benefit bentype ascore);
set benchmrk;
where upcase(majgrp)='CONUS MHS';
rename score=ascore;
run;
proc sort; by benefit bentype;
proc sort data=benchmrk; by benefit bentype;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype;run;
PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE; RUN;

PROC SORT DATA=FINAL; BY KEY; RUN;

DATA CONUS_C;
  MERGE FINAL(IN=IN1) FAKEC(IN=IN2);
  BY KEY;
  IF IN1;
RUN;
PROC SORT DATA=CONUS_C; BY MAJGRP BENEFIT BENTYPE; RUN;

*****
* Perform significance tests for CONUS scores
*****;
DATA SIGTEST1;
  MERGE CONUS_C(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  length key $200;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 - PUT CONDITION TO
AVOID DF=0 WHICH CAUSES ERROR FOR PROBT FUNCTION **/
  ELSE TEST = .; /** RSG 06/22/2004 - ADDED FOR CASES WITH N_OBS = 1 OR LESS SINCE PROBT CAN'T BE
PERFORMED AND WOULD RESULT IN TEST = MISSING ANYWAY **/
  SIG = 0;
  IF TEST < 0.05 AND TEST NE . THEN SIG = 1; /** RSG 06/22/2004 - ADDED CONDITION "TEST NE ." IN
CASE MISSING IS CONSIDERED LESS THAN 0.05 **/
  IF SCORE < BSCORE THEN SIG = -SIG;

  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));  ***MJS 07/08/03 Added TIMEPD;
  SOURCE = "CONUS_C";
  FLAG = "CONUS_C";
  IF BENEFIT NOTIN ("Involving Parents","Special Needs") THEN DO;
  /*RSG 01/05/2006 THERE ARE 2 NEW COMPOSITES THAT DO NOT HAVE
HAVE CORRESPONDING BENCHMARKS. TO AVOID HAVING THE
SCORE SET TO MISSING, THIS CONDITION HAD TO BE INCLUDED*/
  score=score+ascore-bscore;
END;
IF SIN;

```

```

RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;

*****
* Extract CAHPS scores to perform significance tests
*****;
DATA CAHPS bench;
  SET IN1.&DSN;
  if MAJGRP ne 'Benchmark' then OUTPUT CAHPS;
  else output bench;
RUN;

PROC SORT DATA=CAHPS;
  BY MAJGRP BENEFIT BENTYPE;
RUN;

*****
* Perform significance tests for CAHPS scores
*****;
DATA SIGTEST2;
  MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 PUT N_OBS > 1
  CONDITION TO AVOID ERRORS BECAUSE PROBT CAN NOT HANDLE DF=0 **/
  ELSE TEST = .;
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 AND TEST NE . THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;

  IF BENEFIT NOTIN ("Involving Parents","Special Needs") THEN DO;
  /*RSG 01/05/2006 THERE ARE 2 NEW COMPOSITES THAT DO NOT HAVE
  HAVE CORRESPONDING BENCHMARKS. TO AVOID HAVING THE
  SCORE SET TO MISSING, THIS CONDITION HAD TO BE INCLUDED*/

  score=score+ascore-bscore;
  END;
  RUN;
proc sort data=bench; by majgrp benefit bentype;
data sigtest2;
set sigtest2 bench; by majgrp benefit bentype;
PROC SORT DATA=SIGTEST2; BY KEY; RUN;

*****
* When NOT 1st quarter: Get records from previous quarters
*****;

%MACRO LASTQTR;
  *****
  * Input composite records from previous quarters.
  *****;
  LIBNAME IN2 "&LSTCONUS";
  DATA LASTQTR;
    SET IN2.CONUS_C (DROP=KEY);

    IF timepd = "&PERIOD1" AND
    (REGION = REGCAT) AND
    BENEFIT IN ("Getting Needed Care",
    "Getting Care Quickly",
    "How Well Doctors Communicate",
    "Courteous and Helpful Office Staff",
    "Customer Service",
    "Involving Parents",
    "Health Care",
    "Health Plan",
    "Personal Doctor or Nurse",
    "Specialty Care",
    "Special Needs") & TIMEPD NE "Trend";

    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
    UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
    UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));

```

```

RUN;
%MEND LASTQTR;
%LASTQTR;
PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;

DATA LASTQTR;
MERGE TEMPC(IN=IN1) LASTQTR(IN=IN2);
BY KEY;
IF IN1 AND IN2;
RUN;

*****
* Combine previously created records with the new file
*****;
DATA COMBINE OUT.LT30C;
SET SIGTEST1 SIGTEST2 LASTQTR;
BY KEY;

        if timepd="&period1" then period=1;    ***MJS 07/08/03 Changed from
bentype="&period1";
        if timepd="&period2" then period=2;    ***MJS 07/08/03 Changed from
bentype="&period2";
*****
* Remove N_OBS < 30 OR N_WGT < 200
*****;
IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
(REGION NE "Benchmark") THEN OUTPUT OUT.LT30C;
        ELSE OUTPUT COMBINE;
RUN;

*****
* Create place holders for missing records
*****;
DATA FAKEONLY;
MERGE COMBINE(IN=IN1) TEMPC(IN=IN2);
BY KEY;
SOURCE = "FAKE ONLY";
FLAG   = "FAKE ONLY";
IF IN2 AND NOT IN1;

RUN;

*****
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*****;
DATA CONUS_C;
SET FAKEONLY COMBINE;
BY KEY;
*****
* Convert CAHPS Composites and Individual to 1-100 scale
*****;
IF timepd="Trend" OR timepd="&PERIOD2" then SCORE = SCORE*100;
RUN;

PROC SORT DATA=CONUS_C; BY ORDER; RUN;

DATA FAKEC;
SET IN1.FAKEC;
LENGTH KEY $200.;
SIG = .;
SCORE = .;
ORDER = _N_;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/31/03 Added TIMEPD;

RUN;
PROC SORT DATA=FAKEC OUT=TEMPC;          BY KEY; RUN;
PROC SORT DATA=FAKEC(KEEP=ORDER KEY); BY KEY; RUN;

PROC SORT DATA=CONUS_C out=CONUS_C;
BY KEY;
RUN;

```

```

*****
* Extract records to calculate TRENDS. Keep only 2001/2003 pairs for CAHPS
* records. Trends have already been calculated for MPR scores.
*****;

DATA TRENDS;
  SET CONUS_C;
  WHERE TIMEPD IN ("%period1.", "%period2."); /*CDR 2/08/2004 */
RUN;

/* CDR 2/08/2004 Changed from 2000,2002 to 2001,2003*/

DATA TEMP_1;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE ;
  IF TIMEPD = "%period1.";
RUN;
PROC SORT DATA=TEMP_1; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA TEMP_2;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF TIMEPD = "%period2.";
RUN;
PROC SORT DATA=TEMP_2; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA PAIR(keep=majgrp region regcat benefit bentype);
  MERGE TEMP_1(IN=IN01) TEMP_2(IN=IN02);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF IN01 AND IN02;
RUN;

PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
RUN;

DATA TRENDS2;
  MERGE TRENDS(IN=INTREND) PAIR(IN=INPAIR);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF INTREND AND INPAIR;
RUN;

PROC SORT DATA=TRENDS2;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
RUN;
proc print data=trends2(obs=100);RUN;
*****
* Calculate TRENDS keeping only the TREND records
*****;

/* CDR 2/08/2004 - Changed from 2000,2002 to 2001,2003 */

DATA TRENDS3 bench;
  SET TRENDS2(drop=bscore bsemean);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
  IF TIMEPD = "%period1." THEN DO;
    SCORE1 = SCORE/100;
    SE01   = SEMEAN;
    N1     = N_OBS;
    W1     = N_WGT;
  END;
  RETAIN SCORE1 SE01 N1 W1;
  IF TIMEPD = "%period2." THEN DO;
    SCORE2 = SCORE/100;
    SE02   = SEMEAN;
    N2     = N_OBS;
    W2     = N_WGT;
  END;
  RETAIN SCORE2 SE02 N2 W2;
  LENGTH KEY $200.;
  IF TIMEPD = "%period2." THEN DO;
    TIMEPD = "Trend";
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||

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```

        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
SOURCE = "TREND";
SEMEAN = SQRT(SE01**2+SE02**2);
N_OBS = MIN(N1,N2);
N_WGT = MIN(W1,W2);
SCORE = SCORE2-SCORE1;
DSCORE = 100*(SCORE2-SCORE1);
if region='Benchmark' then OUTPUT bench;
else output trends3;
END;
DROP ORDER SCORE1 SCORE2 SE01 SE02 N1 N2;
RUN;

PROC SORT DATA=trends3;
    BY MAJGRP BENEFIT BENTYPE TIMEPD;
RUN;
proc sort data=bench out=benchs(keep=majgrp benefit bentype timepd score semean);
by majgrp benefit bentype timepd;
run;

*****
* Perform significance tests for CAHPS scores
*****;
DATA trends4;
    MERGE trends3(IN=SIN) BENCHs(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
    BY MAJGRP BENEFIT BENTYPE;
    if bsemean=. then bsemean=0;
    TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
    TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
    SIG = 0;
    IF N_OBS >= 30 AND TEST < 0.05 AND TEST NE . THEN SIG = 1;
    IF SCORE < BSCORE THEN SIG = -SIG;
    IF SIN;
RUN;

data trends5;
set trends4 bench;
score=dscore;
PROC SORT DATA=TRENDS5; BY KEY; RUN;

*****
* Construct ORDERing variable from WEB layout
* (RSG 02/2005 add fix to order it properly
*****;
DATA ORDER;
    SET IN1.FAKEC;
    ORDER = _N_;
    LENGTH KEY $200;
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
          UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
          UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
    KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

DATA MERGTRND;
    MERGE TRENDS5(IN=IN1) ORDER(IN=IN2);
    BY KEY;
    IF IN1 and in2;
RUN;

PROC SORT DATA=CONUS_C OUT=CONUS_C; by key;run;
data conus_c;
    merge conus_c order(in=gin); by key;
    if gin;
proc sort data=CONUS_C; by order;
PROC SORT DATA=MERGTRND; BY ORDER; RUN;

DATA OUT.CONUS_C;
    update MERGTRND CONUS_C;
    BY ORDER;

```

```

RUN;

PROC SORT DATA=ORDER; BY ORDER; RUN;

DATA TOTAL_C;
    MERGE ORDER OUT.CONUS_C;
    BY ORDER;
RUN;

PROC SORT DATA=TOTAL_C OUT=OUT.TOTAL_C; BY ORDER; RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6077-410)"; /*MJS 03/23/04 Updated
project number*/
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFIND.SD2 - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.SD2 - CONUS Scores Database in WEB layout";

PROC FREQ;
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/08/03 Added TIMEPD*/
    REGION*REGCAT
    /MISSING LIST;
RUN;

```

G.14 LOADWEB\MAKEHTMC_NEW.SAS - GENERATE HTML AND XLS FILES FOR CHILD BENEFICIARY REPORTS.

```

*=====;
*   Programmer:  Mark A. Brinkley                               ;
*   Title:      MAKEHTMC.SAS                                   ;
*   Client:     6077-410                                       ;
*   Date:       06-01-2001                                     ;
*   ;                                                       ;
*   Purpose:    This program is designed to create             ;
*               report cards for the 2000 DOD project          ;
*   ;                                                       ;
*   ;                                                       ;
*   Input files: TOTAL_QR.SD2                                   ;
*   Output files: HTML\;                                       ;
*               1269*3 F*.HTM Files (Frame version)           ;
*               1269 P*.HTM Files (Printer friendly - no frames) ;
*               P*.XLS Files (Excel files)                     ;
*   -----;
*   ;                                                       ;
*   ;                                                       ;
*   ;                                                       ;
*   00!000!000!000!000!000!000!000!000!000!000!000!000!000! ;
*   ;                                                       ;
*   IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT ;
*   YOUR CHANGES.  THOSE FAILING TO DO THIS WILL BE SEVERELY  ;
*   BEATEN.  ;
*   ;                                                       ;
*   00!000!000!000!000!000!000!000!000!000!000!000!000!000! ;
*   ;                                                       ;
*   ;                                                       ;
*   ;                                                       ;
*   Modifications: ;
*   11-01-2000 - JSykes added pieces to create Excel Spreadsheets ;
*   07-01-2001 - MAB modified for qtr 2                          ;
*   10-25-2001 - C.Rankin moved link to printer friendly version ;
*               from frame, created macro variable to include  ;
*               third row of subbenefit heading                 ;
*   11-01-2001 - D.Beahm changed splitpercent to splitpixel and adjusted;
*               the pixel size of the top frame to prevent scrolling ;
*               she also added a <BR> before the printer icon to make ;
*               sure it appears on it's own line                ;
*   12-21-2001 - D.Beahm changed column widths for frame page a so that ;
*               the column headers would line up with the data in frame;
*               page b. Also revised Excel code so benchmarks for the ;
*               majorgrp are shaded dark red instead of blue    ;
*   04-18-2002 - Quarterly report cards will now show a rolling 4 ;
*               quarters of data for the trend. DKB updated the period ;
*               BENTYPE references to account for this, this will need ;
*               to be done each quarter. Also revised footnote  ;
*               to indicate that this is the 2002 Survey of Health Care;
*               Beneficiaries. This reflects a change from previous ;
*               years, the survey year now refers to the processing ;
*               year instead of the year for which data was collected. ;
*               Also changed image reference from QTR to COL, these ;
*               new names for the qtr images reflects the column they ;
*               are in instead of the quarter they represent    ;
*   06-19-2002 - Mark Brinkley                                   ;
*               Updated for Q2_2002                             ;
*               Changed macro var PERIOD to CURRENTPERIOD       ;
*               Added macro vars PERIOD1-PERIOD3                ;
*   07-29-2002 - Daniele Beahm                                   ;
*               Added links to trend pages. Clicking on the fielding;
*               Period now takes you to the component page for that ;
*               period and clicking on the Trend column header now ;
*               takes you to the Trend section of the help file  ;
*   02-04-2003 - Mike Scott                                     ;
*               Changed "Primary Care Manager" to "Personal Doctor" ;
*   02-10-2003 - Mike Scott                                     ;
*               Inserted LENGTH HREF $ 250 statements before    ;
*               href = "string" statements so that href wouldn't be ;
*               set by default                                   ;
*   02-14-2003 - Mike Scott                                     ;
*               Added code to avoid scores > 100               ;

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* 04-30-2003 - Mike Scott ;
*      Changed Preventive Care columns from 5 to 6 to ;
*      accommodate Cholesterol Testing. ;
* 05-01-2003 - Mike Scott ;
*      Updated periods for Q1 2003, and changed "2001 and ;
*      2002" to "2002 and 2003" and "2002 Health Care ;
*      Survey" to "2003 Health Care Survey". ;
* 05-04-2003 - Mike Scott ;
*      Removed Civilian PCM (var1=3 or majgrp=3), and ;
*      changed 4-8 references to 3-7. ;
* 05-06-2003 - Mike Scott ;
*      Changed 7-0-0 to 8-0-0. ;
* 05-13-2003 - Mike Scott ;
*      Changed two widths. ;
* 05-14-2003 - Mike Scott ;
*      Changed columns from 2-12 to 1-11 which is ;
*      controlled by var3 - decreased var3's by 1 and ;
*      decreased K loops by 1. ;
* 07-03-2003 - Mike Scott ;
*      Incorporated TIMEPD variable into program to run ;
*      with Q1 2003 TOTAL_Q rerun to include TIMEPD ;
*      variable. ;
* 07-30-2003 - Mike Scott ;
*      Added else do section to correct header. ;
* 07-31-2003 - Mike Scott ;
*      Updated periods for Q2 2003. ;
* 08-01-2003 - Mike Scott ;
*      Added code so periods would print on var3=7,8,9,10. ;
* 08-07-2003 - Regina Gramss ;
*      Changed program to create additional trend pages ;
*      for each sub-benefit: pages are now named with 4 ;
*      numbers (var4 has been added to all file name ;
*      references) to compensate for additional layer ;
*      of pages. All file references have been changed ;
*      to include var4. ;
* 01-28-2004 - Mike Scott ;
*      Changed back to html being generated in HTML ;
*      directory below directory where MAKEHTMQ is being ;
*      run. ;
* 01-29-2004 - Mike Scott ;
*      Commented out LENGTH HREF $ 250 statements, since ;
*      HREF was already declared. ;
* 02-11-2004 - Mike Scott ;
*      Changed all lengths to 100 that were less than 100. ;
* 03-24-2004 - Mike Scott ;
*      Updated for Q1 2004. Changed hard-coded years in ;
*      footnotes stating source to macro variables. ;
* 05-07-2004 - Mike Scott - Changed "Wait More than 15 Minutes Past ;
*      Appointment" to "Wait in Doctor's Office" and ;
*      "Problems Getting Referral to Specialist" to "Problems ;
*      Getting to See Specialist". NAed out trends for the ;
*      composites Getting Needed Care, Getting Care Quickly, ;
*      and Customer Service and for the questions Problems ;
*      Getting Personal Doctor/Nurse (GNC), Wait in Doctor's ;
*      Office (GCQ), and Problem with Paperwork (CS). ;
* 02-16-2004 - Mike Scott - Moved initial data read-in outside macro ;
*      loop to speed up program. ;
* 06-22-2004 - Regina Gramss - Updated for Q2 2004 run. ;
* 08-02-2004 - Regina Gramss - removed lines that replaced trend ;
*      with NA; ;
* 10-07-2004 - Regina Gramss - Adjusted for XTNEXREG ;
* 02-14-2005 - Mark Brinkley - added 12th benefit SMOKING ;
* 05-10-2005 - Regina Gramss - deleted chol testing under Prevention ;
*      and added BMI for Healthy Behavior (which replaced ;
*      Smoking Cessation) ;
* 07-20-2005 - Regina Gramss - converted to create Child Ben Reports ;
*      ;
* NOTE: Update only SRCYR1, SRCYR2, PERIOD1/2/3, and CURRENTPERIOD. ;
*=====;

%LET SRCYR1 = 2004; *** Previous year;
%LET SRCYR2 = 2005; *** Current year;

/*** Added macro variables for previous periods (MAB 6-19-2002) ***/

```

```

%LET PERIOD1 = 2004;                                /*RSG 07/20/05 Report only on 2 periods this year*/

/**** Change name of macro variable from PERIOD (MAB 6-19-2002) ****/
%LET CURRENTPERIOD = 2005;                          /** Current Period of these reports **/
%LET QTRS=2;                                         /** Yrs of these reports    **/

OPTIONS NOXWAIT MPRINT;                            /* 2000/11: added noxwait*/

%LET HTMLSP=%NRSTR(&nbsp;);                          /**DANIELE CHANGED %STR(&nbsp;) TO %NRSTR(&nbsp;)**/
%LET QUOTE=%STR("");
/*%LET OUTDIR=L:\Q3_2005\Programs\Loadweb\CHILDHTML\CHILD;*/
%LET OUTDIR=CHILDHTML\CHILD;                        /** Directory to put HTML files **/ /*MJS 01/28/04
Set to HTML*/
%LET IMGDIR=images;                                /** Directory with images **/
%LET TARGET=target='_parent';                       /** HTML code for frames targeting **/
%LET OUTXLS=1;                                       /** 1=Make XLS file/0=Don't   Added 1-24 MAB **/
%LET fontface=%STR(Arial,Helvetica,Swiss, Geneva);
%LET hcolor=%STR('white');
%LET BLUE=%STR('#663300');                          /** This is really dark red **/
%LET GREEN=%STR('#009933');
%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET LOGO=%STR('images\tricare_side_35_new.gif');
%LET HELP_BUT=%STR('images\help75.gif');
%LET HOME_BUT=%STR('images\home75.gif');
%LET BACK_BUT=%STR('images\back75.gif');
%LET NUMBER_HTML_FILES=0;                          /** Keep count of HTML files created **/

%LET SUB_HEAD=0;                                    /** Macro variable for sub-benefit heading **/
/** 1=headings, 0=no headings                      **/

/*****
/***** Macro for putting notes at bottom of table *****/
/*****
%MACRO BOTTOM_NOTES();

    PUT "<tr>";
    PUT "    <td colspan='&columns.'><font face='Arial,Helvetica,Swiss, Geneva' size='2'>Source:
&SRCYR2 Health Care Survey of DOD Beneficiaries</font>";    ***MJS 03/24/04 Changed hard-coded year
to m
    PUT "    <font face='Arial,Helvetica,Swiss, Geneva' size='2' color='#009933'><br>";
    PUT "    <b>Indicates score significantly exceeds benchmark</b></font><b>&htmlsp.<br>";
    PUT "    </b><font face='Arial,Helvetica,Swiss, Geneva' size='2' color='#cc0000'><i>Indicates
score significantly falls short of benchmark</i></font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss, Geneva' size='2'>NA Indicates not
applicable</font><br>";

    %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
        PUT "    <font face='Arial,Helvetica,Swiss, Geneva' size='2'>* Indicates scores not
available for that quarter</font><br>";
    %end;

    PUT "    <font face='Arial,Helvetica,Swiss, Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
    PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

%MEND BOTTOM_NOTES;

/*****
/***** Macro for adding in link row to trends data *****/
/*****

/**** Macro variable with Javascript to go back ****/
%LET GOBACK=%STR(<script>document.write(&quote.<a href='javascript:history.go(-1)'
target='_parent'>&quote.);

```

```
document.write(&quote.<img src='images\\back75.gif' border='0' alt='Go to previous
page'>&quote.)&document.write(&quote.</a>&quote.)&lt;/script>);
```

```
LIBNAME SRC1 V612 '.' ACCESS=READONLY;
*LIBNAME SRC1 V612 'L:\Q3_2005\Programs\LoadWeb' ACCESS=READONLY;
```

```
OPTIONS LS=210;
```

```

/*****
/**** Macro to create html pages ****/
/**** var1=major group ****/
/**** var2=region ****/
/**** var3=benefit ****/
/**** var4=trend ****/
/**** seppage=0/no separate pages for qtrly trends ****/
/**** 1/1st separate page ****/
/**** 2/2nd separate page ****/
/****
** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
sub benefit trend pages**/

** Load in data **/ ***MJS 05/13/04;
DATA PRE_SUBSET (RENAME=(GROUP=MAJGRP REGION2=REGION REGCAT2=REGCAT));
SET SRC1.TOTAL_C;

IF SCORE>100 then SCORE=100; ***MJS ADDED 2/14/2003 to avoid
scores > 100;
IF (TIMEPD="Trend" and -.5<SCORE<0) THEN SCORE=ABS(SCORE); ***DKB ADDED 8/13/2002 to avoid
negative zero values;

IF BENTYPE="Problems Getting Referral to Specialist" THEN /*MJS 5/7/04 Changed label*/
BENTYPE="Problems Getting to See Specialist";

IF MAJGRP = "CONUS MHS" THEN MAJGRP = "All Children";

LENGTH GROUP $30. REGION2 $30. REGCAT2 $30.;
GROUP=REGION;
REGION2=MAJGRP;
REGCAT2=MAJGRP;

DROP MAJGRP REGION REGCAT;

IF TIMEPD = "&PERIOD1." OR TIMEPD = "&CURRENTPERIOD." OR TIMEPD = "Trend";

RUN;

%MACRO MKHTML(var1,var2,var3,seppage,var4);

/**** Determine some macro variables ****/
%if &prefix=f %then %do;
%let width1=640;
%let width2=640;
%let border=0;
%end;
%else %do;
%let width1=90%;
%let width2=85%;
%let border=1;
%end;

%let number_html_files=%EVAL(1+&number_html_files.);

** Load in data **/
DATA SUBSET;
SET PRE_SUBSET;
LENGTH FILEOUT1 $ 100; /*MJS 02/11/04*/
LENGTH FILEOUT2 $ 100;
```

```

LENGTH FILEOUT3 $ 100;

/** VAR1 indicated major group */
%if &var1.=0 %then %let major=%STR();
%if &var1.=1 %then %let major=%STR(CONUS MHS);
%if &var1.=2 %then %let major=%STR(North);
%if &var1.=3 %then %let major=%STR(South);
%if &var1.=4 %then %let major=%STR(West);

%if &var1.=0 %then %do;
/**      %if &var2.^=99 %then %do;
        IF SUBSTR(REGION,1,5)="CONUS MHS" THEN DELETE;
        %end;*/

        %let comma=%STR();
        %let grpmsg=%STR();
%end;
%else %do;
    IF MAJGRP="&major.";    /** Subset data by major group */
    %let comma=%STR(,);
    %let grpmsg=%STR(Click below to view this table by other groups);
%end;

/** Create macro variables to refer to Component or Trend pages */
%if &seppage.=2 %then %do;
    %let q=q;
    %let unq=;
    %let click_alt=Click for Component data;
    %let click_image=component.gif;
%end;
%else %do;
    %let q=;
    %let unq=q;
    %let click_alt=Click for Trend data;
    %let click_image=trend.gif;
%end;

FILEOUT1=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q..htm");    /** Main html */
FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");    /** Header html */
FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");    /** Data html */
/** Added &var4 to all file names for additional sub-benefit trend pages
    08-07-2003 RSG */
/*MJS 01/28/04 Added &outdir.\ to above filenames*/

/** Added 07-12-2001 MAB If creating Excel then don't create HTML */
%if &outxls.=1 %then %do;
    %let fileout1= NUL;
    %let fileout2= NUL;
    %let fileout3= NUL;
%end;
%else %do;
    call symput('fileout1',FILEOUT1);
    call symput('fileout2',FILEOUT2);
    call symput('fileout3',FILEOUT3);
%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/

/*MJS 01/28/04 Added &outdir.\ to filename*/
FILEOUTX=COMPRESS("&outdir.\p&var1.-&var2.-&var3.-&var4.&q..xls");    /** create run-
specific xls file */
CALL SYMPUT('fileoutX',FILEOUTX);    /** via global macro vars
*/
%if &seppage. ne 2 %then %do;
TEMPLATE=COMPRESS("ChildTemplates\Template&var3..xls");

```

```

%end;
%else %do;
    TEMPLATE=COMPRESS("ChildTemplates\Template_trend.xls");
%end;
CALL SYMPUT('template',TEMPLATE);
file */
/*-----*/
/* 2000/11: end xls code */
/*-----*/

/**** VAR3 dictates type of benefit heading ****/
%if &var3=0 %then %do;
    %let headvar=BENEFIT;
%end;
%else %do;
    /*MJS 07/30/03 Added else do - was %else %let headvar=BENTYPE;*/
    %if &seppage.=2 or &var3=6 or &var3=7 or &var3=8 or &var3=9 %then %let headvar=TIMEPD; /*MJS
08/01/03 Added &var3 code*/
    %else %let headvar=BENTYPE;
%end;

/**** clean up headvar variable ****/
/****IF BENTYPE="Trend" THEN BENTYPE="Trend<BR>% change";****/

/**** Link to XLS file ****/
HREFXLS=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..xls");
call symput('hrefxls',HREFXLS);
RUN;

DATA SUBSET2;
    SET SUBSET;
/* %if &var2.=0 %then %do;
    IF REGION=REGCAT;
    %let sub_regs=%STR(All Regions);
%end;

%else %if &var2.=1 %then %do;
    IF UPCASE(REGION)="CONUS MHS";
    %let sub_regs=%STR(CONUS MHS);
%end;
%else %if &var2.=2 %then %do;
    IF UPCASE(REGION)="ARMY";
    %let sub_regs=%STR(ARMY);
%end;
%else %if &var2.=3 %then %do;
    IF UPCASE(REGION)="NAVY";
    %let sub_regs=%STR(NAVY);
%end;
%else %if &var2.=4 %then %do;
    IF UPCASE(REGION)="AIR FORCE";
    %let sub_regs=%STR(AIR FORCE);
%end;

%else %if &var2.=5 %then %do;
    IF UPCASE(REGION)="OTHER";
    %let sub_regs=%STR(OTHER);
%end;
%else %if &var2.=6 %then %do;
    IF UPCASE(REGION)="NORTH";
    %let sub_regs=%STR(NORTH);
%end;
%else %if &var2.=7 %then %do;
    IF UPCASE(REGION)="NORTH ARMY";
    %let sub_regs=%STR(North Army);
%end;
%else %if &var2.=8 %then %do;
    IF UPCASE(REGION)="NORTH NAVY";
    %let sub_regs=%STR(North Navy);
%end;

%else %if &var2.=9 %then %do;
    IF UPCASE(REGION)="NORTH AIR FORCE";
    %let sub_regs=%STR(North Air Force);
%end;

```

```

%else %if &var2.=10 %then %do;
    IF UPCASE(REGION)="NORTH OTHER";
    %let sub_regs=%STR(North Other);
%end;
%else %if &var2.=11 %then %do;
    IF UPCASE(REGION)="SOUTH";
    %let sub_regs=%STR(SOUTH);
%end;
%else %if &var2.=12 %then %do;
    IF UPCASE(REGION)="SOUTH ARMY";
    %let sub_regs=%STR(South Army);
%end;

%else %if &var2.=13 %then %do;
    IF UPCASE(REGION)="SOUTH NAVY";
    %let sub_regs=%STR(South Navy);
%end;
%else %if &var2.=14 %then %do;
    IF UPCASE(REGION)="SOUTH AIR FORCE";
    %let sub_regs=%STR(South Air Force);
%end;
%else %if &var2.=15 %then %do;
    IF UPCASE(REGION)="SOUTH OTHER";
    %let sub_regs=%STR(South Other);
%end;
%else %if &var2.=16 %then %do;
    IF UPCASE(REGION)="WEST";
    %let sub_regs=%STR(WEST);
%end;

%else %if &var2.=17 %then %do;
    IF UPCASE(REGION) = "WEST ARMY";
    %let sub_regs=%STR(West Army);
%end;
%else %if &var2.=18 %then %do;
    IF UPCASE(REGION) = "WEST NAVY";
    %let sub_regs=%STR(West Navy);
%end;
%else %if &var2.=19 %then %do;
    IF UPCASE(REGION) = "WEST AIR FORCE";
    %let sub_regs=%STR(West Air Force);
%end;
%else %if &var2.=20 %then %do;
    IF UPCASE(REGION) = "WEST OTHER";
    %let sub_regs=%STR(West Other);
%end;
%else %if &var2.=21 %then %do;
    IF UPCASE(REGION) = "OVERSEAS";
    %let sub_regs=%STR(OVERSEAS);
%end;
%else %if &var2.=22 %then %do;
    IF UPCASE(REGION) = "OVERSEAS ARMY";
    %let sub_regs=%STR(Overseas Army);
%end;
%else %if &var2.=23 %then %do;
    IF UPCASE(REGION) = "OVERSEAS NAVY";
    %let sub_regs=%STR(Overseas Navy);
%end;
%else %if &var2.=24 %then %do;
    IF UPCASE(REGION) = "OVERSEAS AIR FORCE";
    %let sub_regs=%STR(Overseas Air Force);
%end;
%else %if &var2.=25 %then %do;
    IF UPCASE(REGION) = "OVERSEAS OTHER";
    %let sub_regs=%STR(Overseas Other);
%end; */
RUN;

/** Subset data by Benefit */
DATA SUBSET3;
    SET SUBSET2;

    %if &var3.=0 %then %do;    /** 0=All Benefits */

```

```

        IF BENTYPE="Composite" and TIMEPD="&currentperiod.";    ***MJS 07/03/03 Changed from IF
BENTYPE="&currentperiod.";
    %end;
    %else %if &var3.=1 %then %do;    ***MJS 4/23/03 Changed 2 to 1;
        IF BENEFIT="Getting Needed Care";

        /** # of columns for this benefit table ***/
        %let columns=%EVAL(5+&qtrs.);
    %end;
    %else %if &var3.=2 %then %do;
        IF BENEFIT="Getting Care Quickly";
        %let columns=%EVAL(5+&qtrs.);
    %end;
    %else %if &var3.=3 %then %do;
        IF BENEFIT="How Well Doctors Communicate";
        %let columns=%EVAL(6+&qtrs.);
    %end;
    %else %if &var3.=4 %then %do;
        IF BENEFIT = "Courteous and Helpful Office Staff";
        %let columns=%EVAL(3+&qtrs.);
    %end;
    %else %if &var3.=5 %then %do;
        IF BENEFIT="Customer Service";
        %let columns=%EVAL(4+&qtrs.);
    %end;
    %else %if &var3.=6 %then %do;
        IF BENEFIT="Health Plan";
        %let columns=%EVAL(2+&qtrs.);
    %end;
    %else %if &var3.=7 %then %do;
        IF BENEFIT="Health Care";
        %let columns=%EVAL(2+&qtrs.);
    %end;
    %else %if &var3.=8 %then %do;
        IF BENEFIT="Personal Doctor or Nurse";
        %let columns=%EVAL(2+&qtrs.);
    %end;
    %else %if &var3.=9 %then %do;
        IF BENEFIT="Specialty Care";
        %let columns=%EVAL(2+&qtrs.);
    %end;
    %else %if &var3.=10 %then %do;
        IF BENEFIT = "Involving Parents";    ***RSG 07/25/2005 PLACEHOLDER;
        %let columns=%EVAL(5+&qtrs.);
    %end;
    %else %if &var3.=11 %then %do;
        IF BENEFIT="Special Needs";
        %let columns=%EVAL(4+&qtrs.);
    %end;

    /** Set macro variable ***/
    %if &var3.=0 %then %do;
        %let sub_ben=%STR(&currentperiod. Composite Scores);
        %let columns=12;
    %end;
    %else %do;
        call symput('sub_ben',BENEFIT);
    %end;

    /** Determine number of columns for sub-benefits ***/
    /** Equals cols - (x for qtrs - 1 for stub column) ***/
    %let subcols=%EVAL(&columns.-&qtrs.-2);    ***DKB CHANGED FROM -1 to -2 5/3/2002;

    /** Determine number of columns less 1st (stub) column ***/
    %let columns_less1=%EVAL(&columns.-1);
    %put "qtrs = " &qtrs. " and columns = " &columns.;
RUN;

    /** Added 4-3-01 MAB ***/
DATA SUBSET4;
    SET SUBSET3;

```

```

WIDTH_COL1=120; /** Set width of column 1 */

IF BENTYPE="Composite" THEN WIDTH3=90; ***DKB ADDED TREND and changed width3 from 120 to 90
4/30/2002***;
ELSE WIDTH3=90; ***MJS 07/03/03 Changed from BENTYPE IN any period and
Est. Quarterly Rate of Change;

/** Deal with some special cases */

** IF BENEFIT="Courteous and Helpful Office Staff" AND
BENTYPE="Composite" THEN WIDTH3=70; ***DKB ADDED TREND 4/30/2002***;
***MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly Rate of Change;

%if &var3.=0 %then %do;
WIDTH_COL1=.;
WIDTH3=40;
%end;

/** Added 5-7-2001 mab */
%if &prefix.=p %then %do;
WIDTH3=.;
%end;

RUN;

OPTIONS LS=152;
PROC PRINT;
VAR BENEFIT BENTYPE TIMEPD REGION MAJGRP; ***MJS 07/03/03 Added TIMEPD;
RUN CANCEL;
PROC PRINT;
VAR BENEFIT BENTYPE REGION MAJGRP; ***MJS 07/03/03 Added TIMEPD;
RUN;

/***** Put out Header rows of table *****/
DATA HTML;
SET SUBSET4;
LENGTH HREFBACK $100; /*MJS 02/11/04*/

IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark");

/** Determine where back button should link to */
%if &var1.=0 %then %do;
HREFBACK=COMPRESS("&prefix.7-0-0-0.htm"); ***MJS 05/06/03 Changed 8-0-0 to 7-0-0;
%end;
%else %do;
HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
%end;

/** Create macro variable date with today's date */
DATETIME=DATETIME();
CALL SYMPUT ('DATETIME',left(put(datetime,date20.)));
DROP DATETIME;

RUN;

/** @@ FRAMES SECTION @@ */
%if &prefix=f %then %do;

/** Make frameset page split frames smaller on all ratings pages */

%if &var3.=0 %then %do;
%let splitpixel=228;
%end;
%else %if &var3.=1 OR &var3.=2 OR &var3.=10 %then %do; ***MJS 4/23/03 Changed 2&3 to 1&2;

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```

        %let splitpixel=211;
    %end;
    %else %if &var3.=4 OR &var3.=3 %then %do;    ***MJS 4/23/03 Changed 4&7 to 3&6;    ***RSG 02/2005
Added var3=12;
        %let splitpixel=180;
    %end;
    %else %if &var3.=5 OR &var3.=11 %then %do;    ***MJS 4/23/03 Changed 6 to 5;
        %let splitpixel=210;
    %end;
    %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
        %let splitpixel=145;    ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
    %end;
    %if &SEPPAGE.=2 %then %do;
        %let splitpixel=150;    ***RSG 01/12/2006 Changed from 157 to 220 since only have trend for
2 years;
    %end;

```

```

/**/ Create frameset page HTML page ***/
DATA _NULL_;
    FILE "&FILEOUT1.";
    PUT "<html>";
    PUT "<frameset rows='&splitpixel.,*'>";
    %if &seppage.=2 %then %do;
        PUT "    <frame src='f&var1.-&var2.-&var3.-&var4.qa.htm'    MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        PUT "    <frame src='f&var1.-&var2.-&var3.-&var4.qb.htm'    MARGINHEIGHT='0'
MARGINWIDTH='0'>";
    %end;
    %else %do;
        PUT "    <frame src='f&var1.-&var2.-&var3.-&var4.a.htm'    MARGINHEIGHT='0' MARGINWIDTH='0'>";
        PUT "    <frame src='f&var1.-&var2.-&var3.-&var4.b.htm'    MARGINHEIGHT='0' MARGINWIDTH='0'>";
    %end;

```

```

    PUT "</frameset></html>";
RUN;

```

```

/**/ Since done making frameset page then assign fileout1 = frame 1 ***/
%let fileout1=&fileout2.;
%if &seppage.=1 %then %do;
    %let fileout1=&fileout2.;
%end;
%else %if &seppage.=2 %then %do;
    %let fileout1=&fileout2.;
%end;

```

```

%end;

```

```

/**/ Initialize HTML page ***/
DATA _NULL_;
    FILE "&FILEOUT1.";

    PUT "<! Created &datetime.>";
    PUT "<html><head><title>";
/*    PUT "&major. &comma. &sub_ben., &sub_regs.";*/
    PUT "&major. &comma. &sub_ben.";
    PUT "</title></head>";
    PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";

```

```

    /**/ link to printer friendly version moved, 10/25/2001 C.Rankin ***/

```

```

RUN;

```

```

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    X "COPY &template. &fileoutX.";    /* copy template xls to run-
specific xls file */

```



```

        /**PUT "<td width=70>&htmlsp.</td>";**/
        PUT "<td width=40 colspan=1><IMG SRC='&imgdir.\dummy.gif' ALT='Total Score'
BORDER=0></td>";
        PUT "<td width=80 colspan=2><IMG SRC='&imgdir.\ea.gif'ALT='Ease of Access'
BORDER=0></td>";
        PUT "<td width=139 colspan=3><IMG SRC='&imgdir.\com_cus_ser.gif' ALT='Communication
and Customer Service' BORDER=0></td>";
        PUT "<td width=160 colspan=4><IMG SRC='&imgdir.\ratings0.gif' ALT='Parents Ratings'
BORDER=0></td>";
        PUT "<td width=100 colspan=2><IMG SRC='&imgdir.\special_topics.gif' ALT='Special
Topics' BORDER=0></td>";
        PUT "</tr>";
        PUT "<tr bgcolor= &hdcclr.>";
    %end;
    %else %do;
        PUT "<tr bgcolor= &hdcclr.>";
        PUT "<td>&htmlsp.</td>";

        /** MAB rearranged 2/11/2005 **/
        PUT "<td align='center' valign='bottom' colspan=2><font face='&fontface.'
size='2'><b>Ease of Access</b></font></td>";
        PUT "<td align='center' valign='bottom' colspan=3><font face='&fontface.'
size='2'><b>Communication and Customer Service</b></font></td>";
        PUT "<td align='center' valign='bottom' colspan=4><font face='&fontface.'
size='2'><b>Parents Ratings</b></font></td>";
        PUT "<td align='center' valign='bottom' colspan=2><font face='&fontface.'
size='2'><b>Special Topics</b></font></td>";
        PUT "</tr>";
        PUT "<tr bgcolor= &hdcclr.>";
    %end;

    /** Print out 1st column of 4th row **/
    /** ÛÛ FRAMES SECTION ÛÛ **/
    %if &prefix=f %then %do;
        PUT "<td width=120>&htmlsp.</td>";
        /**RSG 02/2005 Added in dummy gif to align title**/
        /* PUT "<td align='center' valign='bottom'><IMG SRC='&imgdir.\dummy.gif'ALT=' '
BORDER=0>";*/
    %end;
    %else %do;
        PUT "<td width='7%'><font face='&fontface.'>&htmlsp.</font></td>";
    %end;

    /** MAB 2/11/2005 **/
    bennum=1; /** index to all 12 benefits **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        /* PUT "&major. &comma. &sub_regs.";*/
        PUT "&major.";
        PUT "%cmpres('&sub_ben.')";
    %end;
    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
END;

FILE "&FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */

/** Put Benefits across columns (Continuation of 4th row) **/
HREF=COMPRESS("../child\&prefix.&var1.-&var2.-"||bennum||"-&var4..htm");

/** If TOTAL benefit then don't have HREF **/
/** ÛÛ FRAMES SECTION ÛÛ **/
%if &prefix=f %then %do;

```



```

        PUT "          <td valign='center' align='center' colspan="" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
/*          PUT "          <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";*/
        PUT "          <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";
/** If ratings then don't display reference period ***/
%if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
        ***RSG 1/12/06 Changed 7/8/9/10 TO 6/7/8/9;
        PUT "          &sub_ben.</b></font>";
%end;
%else %do;
        PUT "          &sub_ben.<BR>&currentperiod.</b></font>";
%end;

PUT "          </td>";
PUT "</tr>";

/** Sub_head macro variable added C.Rankin 10/25/2001 ***/

%if &sub_head.=1 %then %do;
/** 3rd Row ***/
/** ÛÛ FRAMES SECTION ÛÛ ***/
%if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
/** If sub-benefits then output sub-benefit columns ***/
%if &subcols.^=0 %then %do;
        IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
        PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt="" BENEFIT "" BORDER=0></td>";
        PUT "<td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0></td></tr>";
%end;
%else %do;
        PUT "<td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0></td></tr>";
%end;
%end;
%else %do;
        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
/** If sub-benefits then output sub-benefit columns ***/
%if &subcols.^=0 %then %do;
        PUT "<td align='center' valign='bottom' colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
        PUT "<td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Composite</b></font></td></tr>";
%end;
%else %do;
        PUT "<td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Ratings</b></font></td></tr>";
%end;
%end;
%end;

/** 4th Row start (column 1) ***/
/** ÛÛ FRAMES SECTION ÛÛ ***/
%if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "<td align='center' valign='bottom'><img src='&imgdir.\blank_110_50.gif'
border=0></td>";
%end;
%else %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "<td width='10%'>&htmlsp.</td>";
%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;

```



```

/**** Remove qtrs from column counts ****/
%let columns=%EVAL(&columns.-&qtrs.);

/**** Do sub-benefit page without any qtrly info ****/
DATA _NULL_;
  SET HTML2 END=EOF;

/**** Since splitting up table need to delete some records ****/
/**** Modified 2-2 MAB to deal with new period values **/
IF BENTYPE="Composite" THEN DELETE; ****DKB ADDED TREND 4/30/2002***;
                                ****MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly Rate of Change;

FILE "&FILEOUT1." MOD ;

COLUMNS=&columns.;
SPAN2=ROUND(COLUMNS/2,1);
SPAN1=COLUMNS-SPAN2;

IF _N_=1 THEN DO;

  FILE "&FILEOUT1." MOD ;    /* 2000/11: moved inside if stmt */

  /**** MF Changes ROW 1 ****/
  PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
  PUT "<tr bgcolor='white'>";
  PUT "      <td colspan="" SPAN1 +(-1) "" valign='top' bgcolor='#999999'><img border='0'
height='25' width='242' src=&logo.></td>";
  PUT "      <td colspan="" SPAN2 +(-1) "" align='right' valign='bottom'
bgcolor='#999999'>";
  PUT "          <div align='right'>";
  /**** RSG - 09/02/03 Second set of trend pages need to refer to var4=0 pages **/
  PUT "          <a href='..\child\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
  PUT "          <a href='..\child\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. ";

  /**** 4-17 MAB added JS code to go back ****/
  PUT "&goback.";
  PUT "      <noscript><a href="" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
  PUT "          &htmlsp. ";
  PUT "          <a href='..\child\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
  PUT "      </td>";
  PUT "</tr>";

  /**** MF Changes ROW 2 ****/
  /**** Modified 2-2 MAB to better align title **/
  PUT "<tr>";
  PUT "      <td valign='center' align='center' colspan="" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
  /*          PUT "          <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";*/
  PUT "          <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";

  PUT "          &sub_ben.<BR>&currentperiod.</b></font>";

  PUT "      </td>";
  PUT "</tr>";

/**** Sub_head macro variable added C.Rankin 10/25/2001 ****/

%if &sub_head.=1 %then %do;
  /**** 3rd Row ****/
  /**** UU FRAMES SECTION UU ****/
  %if &prefix=f %then %do;

```

```

        PUT "<tr bgcolor= &hdcblr.><td>&htmlsp.</td>";    /** Column 1 **/

IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
        PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE " alt='"
BENEFIT " ' BORDER=0></td>";
        %end;
        %else %do;
                PUT "<tr bgcolor= &hdcblr.><td>&htmlsp.</td>";    /** Column 1 **/
                PUT "<td align='center' valign='bottom' colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
                %end;
        %end;

        /** 4th Row start (column 1) ***/
        /** UÛ FRAMES SECTION UÛ ***/
        %if &prefix=f %then %do;
                PUT "<tr bgcolor= &hdcblr.><font face='&fontface.'>";
                %if &var3.=3 %then %do;
                        PUT "<td align='center' valign='bottom'><img src='&imgdir.\blank_100_50.gif'
border=0></td>";
                %end;
                %else %do;
                        PUT "<td align='center' valign='bottom'><img src='&imgdir.\blank_130_50.gif'
border=0></td>";
                %end;
                %end;
                %else %do;
                        PUT "<tr bgcolor= &hdcblr.><font face='&fontface.'>";
                        PUT "<td width='10%'>&htmlsp.</td>";
                %end;

qnum=1; /**RSG 08/07/03 Added as counter to use to for link to the trend pages**/

        /*-----*/
        /* 2000/11: begin xls code */
        /*-----*/
        %if &outxls.=1 %then %do;
                FILE XLSTITLE;
                PUT "&major. &comma. &sub_regs.";*/
                PUT "&major.";
                PUT "%cmpres('&sub_ben.')";
                %end;
        /*-----*/
        /* 2000/11: begin xls code */
        /*-----*/

END;

FILE "&FILEOUT1." MOD ;                                /* 2000/11: refer back to htm file */
/** Print out column headings ***/

/*HREF=COMPRESS("help.htm#q&var3.");    */

HREF=COMPRESS("../child&prefix.&var1.-&var2.-&var3.-"||qnum||"&unq..htm");
    *** RSG 08/07/03 Use qnum counter to refer to subbenefit trend pages;

*****;
/** 4th Row (columns 2+) ***/
/** If quarter column then HREF link is different ****/
/** UÛ FRAMES SECTION UÛ ***/
%if &prefix=f %then %do;
        IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
        PUT "<td align='center' valign='bottom'><a href=" HREF "+(-1) "" &target.><IMG SRC="
IMAGE " ' alt=" BENTYPE " ' BORDER=0></a></td>";
        %end;
        %else %do;
                PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href=" HREF "+(-1) "" &target.> &HEADVAR. "</a></font></td>";
        %end;

qnum+1; *** RSG 08/07/03 Added to increase the counter;

IF EOF THEN DO;
        PUT "</font></tr>";

```



```

        PUT "      <td colspan="" SPAN2 +(-1) "" align='right' valign='bottom'
bgcolor='#999999'>";
        PUT "      <div align='right'>";
        PUT "      <a href='../child\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
        PUT "      <a href='../child\index.htm' &target.><img src='&home_but.' border='0'
alt='Return to Main Page'></a>&htmlsp. &htmlsp.";

        /** 4-17 MAB added JS code to go back **/
        PUT "&goback.";

        PUT "      <noscript><a href="" HREFBACK +(-1) "" &target.><img src='&back_but.'
border='0' alt='Return to Top Level'></a></noscript>";
        PUT "      &htmlsp.";
        PUT "      <a href='../child\help.htm' &target.><img src='&help_but.' border='0'
alt='Help'></a></div>";
        PUT "      </td>";
        PUT "</tr>";

        /** MF Changes ROW 2 **/
        /** Modified 2-2 MAB to better align title **/
        PUT "<tr>";
        PUT "      <td valign='center' align='center' colspan="" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
        /*      PUT "      <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";*/
        PUT "      <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";

        /** Since trend data don't display reference period **/
        PUT "      &sub_ben.</b></font><br>";
        /** For trend data for each benefit type, display benefit type - RSG 08/07/03**/
        %if &var4. ne 0 %then %do;
        PUT "      <font face='&fontface.' color='#3333cc' size='4'><b>";
        PUT "      &sub2_ben.</b></font>";
        %end;
        PUT "      </td>";
        PUT "</tr>";

        /** 3rd Row **/
        /** U U FRAMES SECTION U U **/
        /**PUT "<td></td>"**/

        /** 4th Row start (column 1) **/
        /** U U FRAMES SECTION U U **/
        %if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "<td align='center' valign='bottom'><img src='&imgdir.\blank_200_50.gif'
border=0></td>";
        %end;
        %else %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "<td width='10%'>&htmlsp.</td>";
        %end;

        /*-----*/
        /* 2000/11: begin xls code */
        /*-----*/
        %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        /*      PUT "&major. &comma. &sub_regs.";*/
        PUT "&major.";
        %if &var4. = 0 %then %do;
        PUT "%cmpres('&sub_ben.')";
        %end;
        %else %do;
        PUT "%CMPRES('&sub_ben. &comma. &sub2_ben.')";
        %end;
        %end;
        /*-----*/

```

```

        /* 2000/11: begin xls code */
        /*-----*/
END;

FILE "FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */
/*** Print out column headings ***/

LENGTH HREFf1 $250;
LENGTH HREFf2 $250;
LENGTH HREFf3 $250;

LENGTH HREFp1 $250;
LENGTH HREFp2 $250;
LENGTH HREFp3 $250;

****7-29-2002 DKB ADDED LINKS TO COMPONENT PAGES OF PREVIOUS QUARTERS FROM TREND PAGE****;
*****THIS WILL NEED TO BE UPDATED EACH QUARTER*****;
**FRAMES**
HREFf1=COMPRESS("../Period1\f&var1.-&var2.-&var3.-0.htm");
HREFf2=COMPRESS("../child\f&var1.-&var2.-&var3.-0.htm");
HREFf3=COMPRESS("../child\help.htm#trends");

**NO FRAMES**
HREFp1=COMPRESS("../Period1\p&var1.-&var2.-&var3.-0.htm");
HREFp2=COMPRESS("../child\p&var1.-&var2.-&var3.-0.htm");
HREFp3=COMPRESS("../child\help.htm#trends");

****HELP FILE FOR TREND COLUMN****;
/*      HREF3=COMPRESS("../child\help.htm#trend");*/

*****;

/*** 4th Row (columns 2+) ***/
/*** If quarter column then HREF link is different ****/
/*** UU FRAMES SECTION UU ***/

*LENGTH HREF $250;

%if &prefix=f %then %do;
/*      %if &var3.=11 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;
          IF TIMEPD = "April, 2003 to March, 2004" THEN DO;
              IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
          END;
        ELSE DO;
              IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
          END;
        %end;
        %else %do;*/
              IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
COL;
/***end;*/

        IF _N_=1 THEN HREF=HREFf1;
        ELSE IF _N_=2 THEN HREF=HREFf2;
        ELSE IF _N_=3 THEN HREF=HREFf3;
        if timepd ne "Trend" then
            PUT "<td align='center' valign='bottom'><a href=""" HREF +(-1) """ &target.><IMG SRC=' " IMAGE
" ' alt=' " TIMEPD " ' BORDER=0></a></td>";
        else do;
            IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
            PUT "<td align='center' valign='bottom'><a href=""" HREF +(-1) """ &target.><IMG SRC=' "
IMAGE " ' alt=' " TIMEPD " ' BORDER=0></a></td>";
        end;
    %end;
    %else %do;
        IF _N_=1 THEN HREF=HREFp1;
        ELSE IF _N_=2 THEN HREF=HREFp2;
        ELSE IF _N_=3 THEN HREF=HREFp3;

        /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/

        /*      %if &var3.=11 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;

```

```

        IF TIMEPD = "April, 2003 to March, 2004" THEN DO;
            PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "<b>*</b></a></font></td>";
            END;
            ELSE DO;
                PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font></td>";
                END;
                %end;
                %else %do;*/
                    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font></td>";
                    /*%end;*/

%end;

IF EOF THEN DO;
    PUT "</font></tr>";
    /*** 2-2 MAB removed scale row ***/
END;

RUN;

%end;

/**** UÛ FRAMES SECTION UÛ ****/
%if &prefix=f %then %do;
    /**** Close out header HTML page ****/
    DATA _NULL_;
        FILE "&FILEOUT1." MOD;

        PUT "</center></table>";
        PUT "</body></html>";
    RUN;

    /**** Since done making frame 1 page then assign fileout1 = frame 2 ****/
    %let fileout1=&fileout3.;

    /**** Initialize out data HTML page ****/
    DATA _NULL_;
        FILE "&FILEOUT3.";

        PUT "<! Created &datetime.>";
        PUT "<html>";
        PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";
        PUT "<center><table border='1' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8' cols=&columns.
width=640>";
        RUN;

%end;

/*****
/**** Put out rest of table ****/
/**** Colored scores and Stub ****/
/****
%if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                                ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
DATA HTML3;
    SET SUBSET4;
RUN;
%end;
%else %if &seppage.=1 %then %do;
DATA HTML3;
    SET SUBSET4;

/**** 8-7-2003 Mark Brinkley ****/

```

```

IF TIMEPD="&currentperiod.";

/** Since splitting up table need to delete some records **/
/** Modified 2-2 MAB to deal with new period values **/
IF BENTYPE="Composite" THEN DELETE;    ***DKB ADDED TREND 5/2/2002***;
RUN;                                ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly Rate of Change;
%end;
%else %if &seppage.=2 %then %do;

DATA HTML3;
SET SUBSET4;
/** Since splitting up table need to delete some records **/
/** Modified 2-2 MAB to deal with new period values **/
* IF BENTYPE="Composite";    ***DKB ADDED TREND 5/2/2002***;

*** RSG ADDED VAR4 CONDITIONS FOR SUB-BENEFIT TREND PAGES 08/07/03;
%if &var4. = 0 %then %do;
    IF BENTYPE="Composite";
%end;
%else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
    %if &var3. = 1 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Problems Getting Personal Doctor/Nurse";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Problems Getting to See Specialist";    ***MJS 5/7/04 Changed
label;
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Problems Getting Necessary Care";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Delays in Care While Awaiting Approval";
        %end;
    %end;
    %else %if &var3. = 2 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Advice over Telephone";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Wait for Routine Visit";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Wait for Urgent Care";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Wait in Doctor's Office";    ***MJS 5/7/04 Changed label;
        %end;
    %end;
    %else %if &var3. = 3 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Listens Carefully";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Explains so you can Understand";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Explains so your child can Understand";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Shows Respect";
        %end;
        %else %if &var4. = 5 %then %do;
            IF BENTYPE = "Spends Time with your child";
        %end;
    %end;
    %else %if &var3. = 4 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Courteous and Respectful";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Helpful";
        %end;
    %end;

```

```

%end;
%else %if &var3. = 5 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Problem Finding/Understanding Written Material";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Problem Getting Help from Customer Service";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Problem with Paperwork";
    %end;
%end;
%else %if &var3. = 10 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Make Easy To Discuss Questions";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Get Information Needed From Doctor";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Questions Answered By Doctor";
    %end;
    %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Doctor Involves Parent In Decision";
    %end;
%end;

%end;
%else %if &var3. = 11 %then %do;    /** MAB Added 2/11/2005 **/
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Problems Getting Special Medical Equipment";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Problems Getting Special Therapy";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Problems Getting Treatment or Counseling";
    %end;
%end;

%end;
%end;

RUN;                                ***MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly
Rate of Change;
%end;

/*ÛÛÛÛ ALL MAJGRPS ÛÛÛÛ*/
%if &var1.=0 %then %do;

DATA HTML4;
    SET HTML3 END=EOF;
    *LENGTH HREF $ 250;    /*MJS 01/29/04 Commented out statement*/

    %if &var1.=0 %then %let major=%STR();
    %if &var1.=1 %then %let major=%STR(CONUS MHS);
    %if &var1.=2 %then %let major=%STR(North);
    %if &var1.=3 %then %let major=%STR(South);
    %if &var1.=4 %then %let major=%STR(West);

    IF MAJGRP="CONUS MHS" THEN MAJNUM=1;
    IF MAJGRP="North" THEN MAJNUM=2;
    IF MAJGRP="South" THEN MAJNUM=3;    ***MJS 05/04/03 Removed Civilian PCM;
    IF MAJGRP="West" THEN MAJNUM=4;    ***(MAJNUM=3), and changed 4-8 to 3-7;

    /** HREF link to another page **/
/* HREF=COMPRESS("../child\&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
    RSG 02/2005 - changed for period1-3, link goes to that period component page*/
    HREF=COMPRESS("&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
    /** MAB 7-12-2001 updated to reference trend page if needed **/

    /**RSG 02/2005 - CONUS TREATED AS REGION, COMMENT OUT CODE**/
    /*if &var2.^=17 and &var2.^=18 and &var2.^=19 and &var2.^=20 %then %do;
        IF SUBSTR(REGION,1,5)="CONUS" THEN DELETE;
    %end;*/

```

```

LENGTH HREFQ LMAJGRP $ 100; /*MJS 02/11/04*/
RETAIN LMAJGRP;

IF _N_=1 THEN DO;
    LMAJGRP=" ";
    ROW=0;

    /** Add links to trend data 7.6.2001 MAB **/
    %let columns_less1=%EVAL(&columns.-1);
    %if &seppage.=0 %then %do;
        FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
        PUT "<tr bgcolor= &gray.><td width=" WIDTH_COL1 "><font face='&fontface.'
size='2'><b>Trends</b></font></td>";
        /**RSG 02/2005 Comment out next line because total score is removed **/
        /* PUT "<td width=" WIDTH3 ">&htmlsp.</td>"; */

        %do i=1 %to 11; ***RSG 02/2005 Changed 11 to 12 for 12 Benefits;
            %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MJS 04/14/03 Changed
8,9,10,11 to 7,8,9,10;
                HREFQ=COMPRESS("..\child\&prefix.&var1.-&var2.-&i.-0q.htm"); /** href to 2nd
html file ***/
            %end;
            %else %do;
                HREFQ=COMPRESS("..\child\&prefix.&var1.-&var2.-&i.-0.htm"); /** href to 2nd html
file ***/
            %end;

            PUT "<td width=" WIDTH3 "><a href=" HREFQ " ' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
            %end;
        PUT "</tr>";
    %end;

END;

IF LMAJGRP^=MAJGRP THEN DO; /** Start new row **/
    FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
    ROW+1;
    IF LMAJGRP^=" " THEN PUT "</tr>"; /** terminate previous row **/

    /** Column 1 / Row 1 **/
    /** ÔÛ FRAMES SECTION ÔÛ **/
    %if &prefix=f %then %do;
        /**IF MAJGRP IN("Benchmark") THEN*/ PUT "<tr><td width=" WIDTH_COL1 "><b><font
face='&fontface.' size='2'>" MAJGRP "</font></b></td>"; /** no HREF links **/
    %end;
    %else %do;
        /**IF MAJGRP IN("Benchmark") THEN */ PUT "<tr><td><b><font face='&fontface.' size='2'>"
MAJGRP "</font></b></td>"; /** no HREF links **/
    %end;

    /** Column 1 / Row 2+ **/

    ELSE IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.' size='2'><a
href=" HREF +(-1) " " &target.> " MAJGRP " </a></font></td>"; /** Shade row **/
    ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href=" HREF +(-1) " " &target.> "
MAJGRP " </a></font></td>";

    /**-----*/
    /** 2000/11: begin xls code */
    /**-----*/
    %if &outxls.=1 %then %do;
        FILE XLSDATA;
        IF LMAJGRP^=" " THEN PUT " ";
        /**IF REGION IN("Benchmark") THEN PUT REGION '09'x @@;*/ /* '09'x ensures text string
is put into one cell */

```

```

cells      ELSE IF MOD(ROW,2)=0 THEN      PUT MAJGRP '09'x @@;    /* rather than spanning across
          */
          ELSE
          %end;
          PUT MAJGRP '09'x @@;
          /*-----*/
          /* 2000/11: end xls code */
          /*-----*/

LMAJGRP=MAJGRP;

END;

/**** Column 2+ ****/
/***** Need to output different formats *****/
/***** FILE "FILEOUT1." MOD ;          /* 2000/11: refer back to htm file */

/*IF MAJGRP IN("Benchmark") THEN DO;
  IF SCORE=. THEN PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
  ELSE IF SCORE=.A THEN PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
  ELSE PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
END;
ELSE DO;*/
  IF SCORE=. THEN DO;
    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
  END;
  ELSE IF SCORE=.A THEN DO;
    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= " +(-
1) ORDER Z5.  "></font></b></td>";
  END;
  ELSE DO;
    IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
    ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
    ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
    ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></i></td>";
    ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5.  "></font></td>";
  END;
/* END;*/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
/*IF MAJGRP IN("Benchmark") THEN DO;
  IF SCORE=. THEN      PUT "****" '09'x @@;
  ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
  ELSE
  PUT SCORE '09'x @@;
END;
ELSE DO;*/
  IF SCORE=. THEN DO;
    PUT "****" '09'x @@;
  END;
  ELSE IF SCORE=.A THEN DO;
    PUT "NA" '09'x @@;
  END;
  ELSE DO;
    IF SIG=1 THEN      PUT SCORE '09'x @@;
    ELSE IF SIG=. THEN PUT "****" '09'x @@;
    ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
    ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;

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```

        ELSE                                PUT SCORE '09'x @@;
    END;
/* END;*/
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "FILEOUT1." MOD ;                /* 2000/11: to refer back to htm file */
    PUT "</tr>";  /*** terminate last row ***/

    %BOTTOM_NOTES;  /** Macro with bottom notes **/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
    %if &outxls.=1 %then %do;
        %if &var3.=0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries";    ***MJS 03/24/04 Changed
hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %end;
        %else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
            (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
            (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %end;
        %else %if &var3.ne 0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
                PUT "Indicates scores were not available that quarter";
            %end;
            PUT "*** Indicates suppressed due to small sample size";
        %end;
    %end;

/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;
RUN;
%end;

/*ÛÛÛÛ All Regions ÛÛÛÛ*/
%if &var2.=0 %then %do;
DATA HTML4;
    SET HTML3 END=EOF;
    *LENGTH HREF $ 250;    /*MJS 01/29/04 Commented out statement*/

```

```

LENGTH LREGION HREFQ $ 100;    /*MJS 02/11/04*/
RETAIN LREGION;

IF _N_=1 THEN DO;
    LREGION=" ";
    REGNUM=1;
    ROW=0;

    /** Add links to trend data 7.6.2001 MAB ***/
    %let columns_less1=%EVAL(&columns.-1);
    %if &seppage.=0 %then %do;
        FILE "&FILEOUT1." MOD ;
        PUT "<tr bgcolor= &gray.><td width=' " WIDTH_COL1 "'><font face='&fontface.'
size='2'><b>Trends</b></font></td>";

        %do i=1 %to 11;
            %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do;    ***MJS 04/14/03 Changed from
8,9,10,11 to 7,8,9,10;
                HREFQ=COMPRESS("../child\&prefix.&var1.-&var2.-&i.-0q.htm");    /** href to 2nd
html file ***/
                %end;

            %else %do;
                HREFQ=COMPRESS("../child\&prefix.&var1.-&var2.-&i.-0.htm");    /** href to 2nd html
file ***/
                %end;

            PUT "<td width=' " WIDTH3 "'><a href=' " HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
            %end;
            PUT "</tr>";
        %end;

END;

IF LREGION^=REGION THEN DO;                /** Start new row ***/
    FILE "&FILEOUT1." MOD ;    /* 2000/11: moved inside if stmt */
    ROW+1;
    IF LREGION^=" " THEN PUT "</tr>";    /** terminate previous row ***/
    ELSE IF REGION = "Children Under Age 6" then do;
        PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT colspan=12><b><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>Age Group</font></b></td></tr><tr>";
        END;
    ELSE IF REGION = "All Children" then do;
        PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT colspan=12><b><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>Enrollment Group</font></b></td></tr><tr>";
        END;

    /**-----*/
    /** 2000/11: begin xls code */
    /**-----*/
    %if &outxls.=1 %then %do;
        FILE XLSDATA;
        IF LREGION^=" " THEN PUT " ";                /** terminate previous row ***/
        FILE "&FILEOUT1." MOD ;                /* 2000/11: to refer back to htm file */
    %end;
    /**-----*/
    /** 2000/11: end xls code */
    /**-----*/

    /** Column 1 / Row 1 ***/
    /** ÛÛ FRAMES SECTION ÛÛ ***/
    %if &prefix=f %then %do;
        IF REGION = "Benchmark" THEN PUT "<tr><td width=' " WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";    /** no HREF links ***/
        %end;
        %else %do;

```

```

        IF REGION = "Benchmark" THEN PUT "<tr><td width=' " WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";  /** no HREF links ***/
        %end;
        ELSE DO;  /** HREF links for each region ***/
            HREF=COMPRESS(" &prefix.0-" || REGNUM || "-&var3.-&var4.&q..htm");

            /** Column 1 / Row 2+ ***/
            %if &prefix=f %then %do;
                IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%'
ALIGN=LEFT colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Age
Group</font></b></td></tr><tr>";
                IF REGION = "All Children" THEN PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT
colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Enrollment
Group</font></b></td></tr><tr><tr>";
                PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION "</b></font></td>";
                %end;
                %else %do;
                    IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%'
ALIGN=LEFT colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Age
Group</font></b></td></tr><tr>";
                    IF REGION = "All Children" THEN PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT
colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Enrollment
Group</font></b></td></tr><tr><tr>";
                    PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION "</b></font></td>";
                    %end;

                REGNUM+1;

            END;

            /**-----*/
            /** 2000/11: begin xls code */
            /**-----*/
            %if &outxls.=1 %then %do;
                FILE XLSDATA;
                IF MOD(ROW,2)=0 THEN                PUT REGION '09'x @@;  /* just presentation difference in
htm */
                ELSE                                PUT REGION '09'x @@;  /* keeping as is to preserve htm
code structure */
                %end;
                /**-----*/
                /** 2000/11: end xls code */
                /**-----*/

                LREGION=REGION;
            END;

            /** Column 2+ ***/
            /**-----*/
            /** Need to output different formats *****/
            /**-----*/
            FILE "&FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */
            IF REGION = "Benchmark" THEN DO;  /** no significance ***/
                IF SCORE=. THEN PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
                ELSE IF SCORE=.A THEN PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
                ELSE PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
                END;
            ELSE DO;
                IF SCORE=. THEN DO;
                    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
                END;
                ELSE IF SCORE=.A THEN DO;
                    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= " +(-
1) ORDER Z5.  "></font></b></td>";
                END;
                ELSE DO;
                    IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";

```

```

ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font></td>";
END;
END;

```

```

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
IF REGION = "Benchmark" THEN DO;
IF SCORE=. THEN PUT "****" '09'x @@;
ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
ELSE PUT SCORE '09'x @@;
END;
ELSE DO;
IF SCORE=. THEN DO;
PUT "****" '09'x @@;
END;
ELSE IF SCORE=.A THEN DO;
PUT "NA" '09'x @@;
END;
ELSE DO;
IF SIG=1 THEN PUT SCORE '09'x @@;
ELSE IF SIG=. THEN PUT "****" '09'x @@;
ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
ELSE PUT SCORE '09'x @@;
END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

```

```

IF EOF THEN DO;
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
PUT "</tr>"; /** terminate last row **/

```

```

%BOTTOM_NOTES; /** Macro with bottom notes **/

```

```

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
%if &var3.=0 %then %do;
FILE XLSDATA;
PUT; PUT;
PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04 Changed
hard-coded year to macro variable;
PUT "Indicates score significantly exceeds benchmark";
PUT "Indicates score significantly falls short of benchmark";
PUT "NA Indicates not applicable";
PUT "*** Indicates suppressed due to small sample size";
%end;
%else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
(&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
(&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
FILE XLSDATA;
PUT; PUT;
PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
PUT "Indicates score significantly exceeds benchmark";

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        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
        PUT "**** Indicates suppressed due to small sample size";
    %end;
    %else %if &var3.ne 0 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
        %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
            PUT "**** Indicates scores were not available that quarter";
        %end;
        PUT "**** Indicates suppressed due to small sample size";
    %end;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;

RUN;

%end;

/*----- Single Regions -----*/
/* This code is not applicable for the 2000 report cards */
/* since not enough data to display sub-region info. */
/* Will leave in code in case this changes */
%if &var2.^=0 AND &var1.^=0 %then %do;
DATA HTML4;
    SET HTML3 END=EOF;

    LENGTH LREGCAT $ 100 /*HREF $ 250*/; /*MJS 01/29/04 Commented out HREF statement*/
    RETAIN LREGCAT; /*MJS 02/11/04*/

    IF _N_=1 THEN DO;
        LREGCAT=" ";
        ROW=0;
    END;

    IF LREGCAT^=REGION THEN DO; /*** Start new row ***/
        FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
        ROW+1;
        IF LREGCAT^=" " THEN PUT "</tr>"; /*** terminate previous row ***/
        IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT
colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Age
Group</font></b></td></tr><tr>";
        IF REGION = "All Children" THEN PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT
colspan=12><b><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Enrollment
Group</font></b></td></tr><tr><tr>";
        IF REGION = "Benchmark" THEN PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION
"</font></b></td>";
        ELSE IF SUBSTR(REGION,1,5) = "CONUS" THEN PUT "<tr bgcolor= &gray.><td><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";
        ELSE IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.' size='2'>"
REGION "</font></td>"; /*** Shade row **/
        ELSE PUT "<tr><td><font face='&fontface.' size='2'>" REGION "</font></td>";

        /*-----*/
        /* 2000/11: begin xls code */
        /*-----*/
        %if &outxls.=1 %then %do;
            FILE XLSDATA;
            IF LREGCAT^=" " THEN PUT " ";

```

```

        IF REGION = "Benchmark" THEN PUT REGION '09'x @@;          /* no logic difference */
        ELSE IF SUBSTR(REGION,1,5) = "CONUS") THEN PUT REGION '09'x @@;
        ELSE IF MOD(ROW,2)=0 THEN          PUT REGION '09'x @@;          /* just presentation
difference in htm */
        ELSE          PUT REGION '09'x @@;          /* keeping as is to
preserve htm code structure */
        %end;
        /*-----*/
        /* 2000/11: end xls code */
        /*-----*/

LREGCAT=REGION;

END;

/***** Need to output different formats *****/
/***** 2000/11: refer back to htm file */
FILE "FILEOUT1." MOD ;          /* 2000/11: refer back to htm file */
IF REGION = "Benchmark" THEN DO;          /* no significance */
    IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SCORE=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE PUT "<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
END;
ELSE DO;
    IF SCORE=. THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
    END;
    ELSE IF SCORE=.A THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= " +(-
1) ORDER Z5. "></font></b></td>";
    END;
    ELSE DO;
        IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
        ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font></td>";
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF REGION = "Benchmark" THEN DO;
        IF SCORE=. THEN PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
        ELSE PUT SCORE '09'x @@;
    END;
    ELSE DO;
        IF SCORE=. THEN DO;
            PUT "****" '09'x @@;
        END;
        ELSE IF SCORE=.A THEN DO;
            PUT "NA" '09'x @@;
        END;
        ELSE DO;
            IF SIG=1 THEN PUT SCORE '09'x @@;
            ELSE IF SIG=. THEN PUT "****" '09'x @@;
            ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
        END;
    END;
END;

```

```

        ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
        ELSE
            PUT SCORE '09'x @@;
    END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;
    PUT "</tr>"; /** terminate last row **/

    %BOTTOM_NOTES; /** Macro with bottom notes **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        %if &var3.=0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04 Changed
hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %end;
        %else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
            (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
            (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %end;
        %else %if &var3.ne 0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
                PUT "*** Indicates scores were not available that quarter";
            %end;
            PUT "*** Indicates suppressed due to small sample size";
        %end;
    %end;
    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

END;

RUN;
%end;

/***** Print out footer info *****/
DATA _NULL_;
    FILE "&FILEOUT1." MOD ;
    LENGTH HREF $250;

```

```

/** Determine where back button should link to */
%if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.1-0-0-0.htm");    ***MJS 05/14/03 Changed 8 to 7;
%end;
%else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
%end;

/*HERE!*/

/** MF Changes */
PUT "<tr>";
PUT "    <td colspan='&columns.'>";
PUT "        <center>";
PUT "            <a href='../child/index.htm' &target.><img src=&home_but. border='0' alt='Return
to Main Page'></a>&htmlsp.&htmlsp.";
        /** 7-17 MAB added JS code to go back */
PUT "&goback.";
PUT "        <noscript><a href="" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";

PUT "            <a href='../child/help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a><br>";
PUT "            <font face='Arial,Helvetica,Swiss,Geneva' size='2'><b>&grpmsg.<br>";
PUT "            </b></font>";

majgrp1=COMPRESS("&prefix.1-&var2.-&var3.-&var4.&q..htm");
majgrp2=COMPRESS("&prefix.2-&var2.-&var3.-&var4.&q..htm");
majgrp3=COMPRESS("&prefix.3-&var2.-&var3.-&var4.&q..htm");    ***MJS 05/04/03 Removed Civilian
PCM;
majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");    ***(majgrp3), and changed 4-8 to
3-7;
/*    majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
majgrp7=COMPRESS("&prefix.7-&var2.-&var3.-&var4.&q..htm");*/

/**/
/** Certain major groups are not large enough to show */
/** catchment level detail. So if we are in html file */
/** which has this detail then don't link to a html    */
/** file which doesn't exist    */

%if &var1.^=0 %then %do;
    %if &var1.^=3 and &var1.^=4 and &var1.^=5 and &var2.^=0 %then %do;    ***MJS 05/04/03 Removed
Civilian PCM (&var1.^=3), changed 4,6,7 to 3,5,6;
        ***and changed MAJGRP 5&8 below to 4&7;
        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>CONUS
MHS</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.'
size='2'>North</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP4 +(-1) "" &target.><font face='&fontface.'
size='2'>South</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP7 +(-1) "" &target.><font face='&fontface.'
size='2'>West</font></a>";

    %end;
%else %do;

        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>CONUS
MHS</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.'
size='2'>North</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP3 +(-1) "" &target.><font face='&fontface.'
size='2'>South</font></a>&htmlsp.&htmlsp.";    ***MJS 05/04/03 Removed Civilian PCM;
        PUT "<a href="" MAJGRP4 +(-1) "" &target.><font face='&fontface.'
size='2'>West</font></a>&htmlsp.&htmlsp.";    ***(MAJGRP5), and changed 4-8 to 3-7;
/*        PUT "<br>";
        PUT "<a href="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";

```

```

        PUT "<a href=""" MAJGRP6 +(-1) "" " &target.><font face='&fontface.' size='2'>Retirees and
Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href=""" MAJGRP7 +(-1) "" " &target.><font face='&fontface.' size='2'>All
Users</font></a>";*/

    %end;
%end;

/** link to printer friendly version moved C.Rankin 10/25/2001 ***/

/** 4-17 MAB added ***/
/** If creating frames need link to printer friendly version of file ***/
/**DANIELE ADDED BR STATEMENT ON 11/1/01 SO PRINTER ICON WOULD SHOW UP ON SEPARATE LINE ***/
%if &prefix=f %then %do;
    HREFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..htm");
    PUT "      <BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href='" HREFP " '
&target.><img src='&imgdir.\printer.gif' alt='Printer Friendly Page' border=0>Printer Friendly
Page</a></font>
    %end;

RUN;

/** Close HTML page ***/
DATA _NULL_;
    FILE "&FILEOUT1." MOD ;

    PUT "</center></td></tr></table>";
    PUT "</body></html>";

RUN;

/*-----*/
/* 2000/12: begin xls color code */
/*-----*/
%if &outxls.=1 %then %do;
    FILENAME CMDS DDE 'excel|system';

    /* Align 2 titles */
    DATA _NULL_;
        FILE CMDS;
        CELL=COMPRESS("[SELECT("R1C1:R1C"||&columns.||""]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
        CELL=COMPRESS("[SELECT("R2C1:R2C"||&columns.||""]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
    RUN;

    DATA _NULL_;
        FILE CMDS;
        SET HTML4(DROP=ROW) END=EOF;

        RETAIN ROW COLUMN;

        /** Need to initialize row and column pointers ***/
        IF _N_=1 THEN DO;
            ROW=6;
            COLUMN=1;
        END;

        /** Increment Row and Column pointers ***/
        /*      COLUMN=COLUMN+1;
        IF &var3.in (0,7,8,9,10) and COLUMN>&columns. THEN DO;      ***MJS 4/23/03 Changed 8/9/10/11 to
7/8/9/10;
            ROW=ROW+1;
            COLUMN=2;
        END;
        ELSE IF COLUMN>&columns.+1 THEN DO;
            ROW=ROW+1;
            COLUMN=2;

```



```

%MKHTML(1,0,1,2,0);
%MKHTML(1,0,2,2,0);
%MKHTML(1,0,3,2,0);
%MKHTML(1,0,4,2,0);
%MKHTML(1,0,5,2,0);
%MKHTML(1,0,10,2,0);
%MKHTML(1,0,11,2,0);
%MKHTML(1,0,1,2,1);
%MKHTML(1,0,1,2,2);
%MKHTML(1,0,1,2,3);
%MKHTML(1,0,1,2,4);
*/

*****;
**** Create macros to call MKHTML macro ****;
*****;

/**** Create 4 HTML pages (4 Majgrps / All Regions / All Benefits)****/
%MACRO DOALL1();
    %MKHTML(1,0,0,0,0);
    %MKHTML(2,0,0,0,0);
    %MKHTML(3,0,0,0,0);    ***MJS 05/04/03 Removed Civilian PCM (Majgrp 3), and changed 4-8
to 3-7;
    %MKHTML(4,0,0,0,0);
%MEND DOALL1;

/**** Create 322 HTML pages (4 Majgrps / All Regions / 11 Benefits)****/
%MACRO DOALL2();
    %DO J=1 %TO 4;
        %DO K=1 %TO 11;          * 12 Sub-benefits ;          /**** MAB Changed to 12      2/11/2005
****/
            %MKHTML(&J.,0,&K.,1,0);    ***RSG 08/07/03 Add var4 part of new page numbers;

            /**** Call macro for 2nd page (except for ratings benefits) ****/
            %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                %IF &K. = 1 OR &K. = 2 OR &K. = 10 %THEN %DO L= 0 %TO 4; ***RSG
08/07/03 There are different number of;
                %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %IF &K. = 4 %THEN %DO L = 0 %TO 2;
                %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 3 %THEN %DO L = 0 %TO 5;
                %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 5 OR &K. = 11 %THEN %DO L = 0 %TO 3;
                %MKHTML(&J.,0,&K.,2,&L.);
            %END;
        %END;
    %END;
%MEND DOALL2;

/**** Run macro to create Printer Friendly HTML files (non-frames) ****/

%LET PREFIX=p;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;

/**** Run macro to create Frame HTML files ****/
%LET PREFIX=f;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;

/**** Run macro to create Excel files ONLY ****/
%LET PREFIX=p;
%LET OUTXLS=1;
%DOALL1;
%DOALL2;

```

```
%PUT "&number_html_files. HTML files created.";
```

```
*****;  
*****;  
*****;  
*****;  
*****;  
*****;  
*****;
```